# SHARP SERVICE MANUAL

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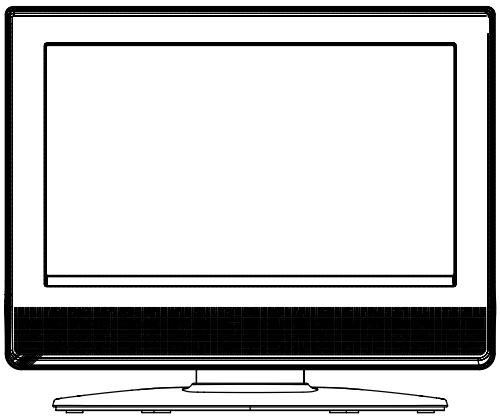

## LCD COLOR TELEVISION/ DVD VIDEO PLAYER

## MODEL LC-26DV10U

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

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The contents are subject to change without notice.

# SERVICING NOTICES ON CHECKING

### 1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

### 2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

### 3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.
Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a ⚠ mark, the designated parts must be used.

### 4. BE CAREFUL WITH THE LCD PANEL

Avoid a shock to the panel while servicing. Take enough care to deal with it.

### 5. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

### 6. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

**(INSULATION CHECK PROCEDURE)**

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the eternal exposure metal **[Note 2]** should be more than 1M ohm by using the 500V insulation resistance meter **[Note 1]**.
4. If the insulation resistance is less than 1M ohm, the inspection repair should be required.

**[Note 1]**

If you have not the 500V insulation resistance meter, use a Tester.

**[Note 2]**

External exposure metal: Antenna terminal
Earphone jack

# HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the VERSION LETTER.)

1. MODEL NUMBER and VERSION LETTER
   The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.
2. PART NO. and DESCRIPTION
   You can find it in your SERVICE MANUAL.

# IMPORTANT

When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease.
(Old grease may cause damage to the IC and Transistor).

# WHEN REPLACING DVD DECK

**[ When removing the DVD Deck ]**

Before removing Pick Up PCB and DVD PCB connector, the short circuit the position shown in **Fig. 1** using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.

**[ When installing the DVD Deck ]**

Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD PCB connector.

**NOTE**

- Before your operation, please read “PREPARATION OF SERVICING”.
- Use the Lead Free solder.
- Manual soldering conditions
  - Soldering temperature: 320 ± 20˚C
  - Soldering time: Within 3 seconds
  - Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the draw in equipment over the Pick Up Unit to keep the Flux smoke away from it.

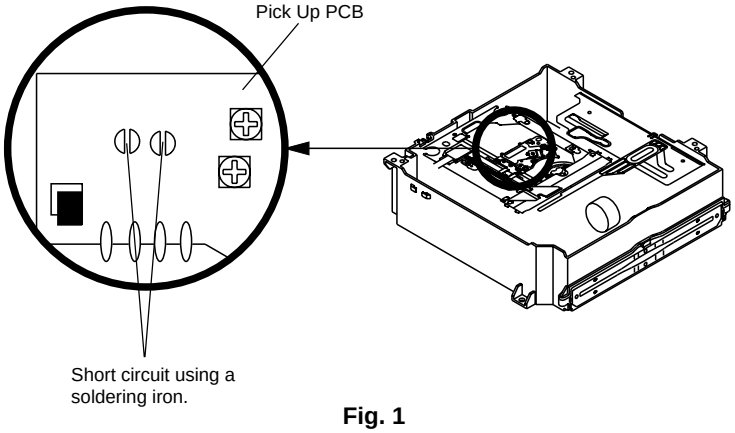



**Fig. 1**

## DISC REMOVAL METHOD AT NO POWER SUPPLY

1. Remove the Back Cabinet. **(Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.)**
2. Slide the Rack Loading toward the arrow direction by hand to release the lock. **(Refer to Fig. 1)**
3. Take out the Disc from the DVD Deck. Be careful not to scratch on the Disc.

**DVD Deck**

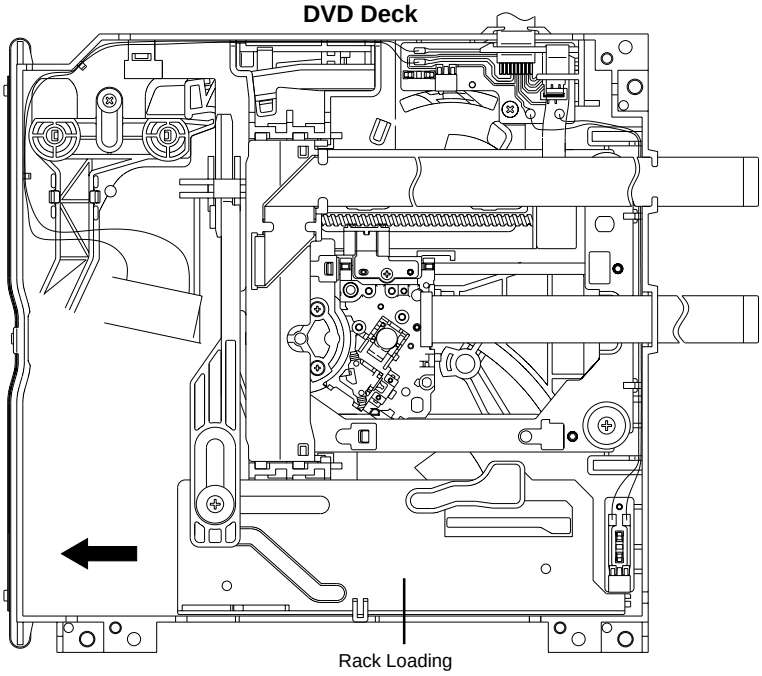



**Fig. 1**

# PARENTAL CONTROL - RATING LEVEL

## 4 DIGIT PASSWORD CANCELLATION

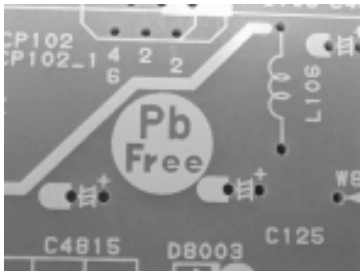
If the stored 4 digit password in the Rating Level menu needs to be cancelled, please follow the steps below.

1. Turn Unit ON.
2. Set the DVD Mode.
3. Confirm that the 'No Disc' will be appeared on the screen.
4. Press and hold the '7' key on the remote control unit.
5. Simultaneously press and hold the 'STOP' key on the front panel.
6. Hold both keys for more than 2 seconds.
7. The On Screen Display message 'PASSWORD CLEAR' will appear.
8. The 4 digit password has now been cleared

# ABOUT LEAD FREE SOLDER (PbF)

### Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB.
(Please refer to figures.)




## Caution:

- Pb free solder has a higher melting point than standard solder;
  Typically the melting point is 86°F~104°F(30°C~40°C) higher.
  Please use a soldering iron with temperature control and adjust it to 650°F ± 20°F (350°C ± 10°C).
  In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).
- All products with the printed circuit board with PbF printing must be serviced with lead free solder.
  When soldering or unsoldering, completely remove all of the solder from the pins or solder area,
  and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

### Recommendations

Recommended lead free solder composition is Sn-3.0Ag-0.5Cu.

# GENERAL SPECIFICATIONS

| | | | | | |
|---|---|---|---|---|---|
| **G-1** | **TV System** | LCD | LCD Size / Visual Size | | 25.5 inch / 647.7mmV |
| | | | LCD Type | | Color TFT LCD |
| | | | Number of Pixels | | 1366(H) x 768(V) |
| | | | View Range | Left/Right | 85/85 degree |
| | | | | Up/Down | 85/85 degree |
| | | Color System | | | NTSC |
| | | Speaker | | | 2 Speaker |
| | | | Position | | Front |
| | | | Size | | 2.2 x 5.0 inch |
| | | | Impedance | | 4 ohm |
| | | Sound Output | Max | | 10W + 10W |
| | | | 10%(Typical) | | --- |
| **G-2** | **DVD System** | Color System | | | NTSC |
| | | Disc | | | DVD, CD-DA, CD-R/RW |
| | | | | | DVD-R/RW (Video Format Only) |
| | | Disc Diameter | | | 120 mm , 80 mm |
| | | Drive | | | DSM-2 |
| | | Search speed | Fwd | | 4 step |
| | | | | Actual | 2-45 times (DVD) |
| | | | | | 4-40 times (CD) |
| | | | Rev | | 4 step |
| | | | | Actual | 2-45 times (DVD) |
| | | | | | 4-40 times (CD) |
| | | Slow speed | Fwd | | 1/7 -1/2 times |
| | | | | Actual | -- |
| | | | Rev | | 1/7 -1/2 times |
| | | | | Actual | -- |
| **G-3** | **Tuning System** | Broadcasting System | Analog | | US System M |
| | | | Digital | | ATSC(8VSB)/QAM |
| | | Tuner and Receive CH | System | | 1Tuner |
| | | | Destination | | US (W/CABLE) |
| | | | CH Coverage | | 2~69, 4A, A-5~A-1, A~I, J~W, W+1~W+84 |
| | | Intermediate Frequency Digital | | | 44.00MHz |
| | | Analog | Picture(FP) | | 45.75MHz |
| | | | Sound(FS) | | 41.25MHz |
| | | | FP-FS | | 4.50MHz |
| | | Preset CH | | | No |
| | | Stereo/Dual TV Sound | | | US-Stereo |
| | | Tuner Sound Muting | | | Yes |
| **G-4** | **Signal** | Video Signal | Input Level | | 1 V p-p/75 ohm |
| | | | Output Level | | -- |
| | | | S/N Ratio (Weighted) | | -- |
| | | | Horizontal Resolution at DVD Mode | | -- |
| | | | | | -- |
| | | RGB Signal | Output Level | | -- |
| | | Audio Signal | Input Level | | 0.85 V p-p/50k ohm |
| | | | Output Level | at DVD | 0.85 V p-p/1k ohm |
| | | | | at TV | 0.85 V p-p/1k ohm |
| | | | | | 0-1.70 V p-p/1k ohm (Variable out mode) |
| | | | Digital Output Level | | 0.5 V p-p/75 ohm |
| | | | S/N Ratio at DVD (Weighted) | | 90dB |
| | | | Harmonic Distortion | | 0.02% (1KHz) |
| | | | Frequency Response : | at DVD | 4Hz - 22kHz |
| | | | | at Video CD | -- |
| | | | | at SVCD | -- |
| | | | | at CD | 4Hz - 20kHz |
| **G-5** | **Power** | Power Source | AC | | 120V, 60Hz |
| | | | DC | | -- |
| | | Power Consumption | | at AC | 155W at 120V 60Hz |
| | | | | at DC | -- |
| | | | Stand by (at AC) | | 1W at 120V 60Hz |
| | | | Energy Star | | Yes |
| | | | Per Year | | -- kWh/Year |
| | | Protector | Power Fuse | | Yes |
| | | | Safety Circuit | | Yes |
| | | | IC Protector(Micro Fuse) | | Yes |
| **G-6** | **Regulation** | | Safety | | UL/CSA/NOM |
| | | | Radiation | | FCC/IC |
| | | | Laser | | DHHS |
| **G-7** | **Temperature** | | Operation | | +5oC ~ +40oC |
| | | | Storage | | -20oC ~ +60oC |
| **G-8** | **Operating Humidity** | | | | Less than 80% RH |

# GENERAL SPECIFICATIONS

| | | | | |
|---|---|---|---|---|
| **G-9** | **Clock and Timer** | Clock | | Yes |
| | | Sleep Timer | Max Time | 120 Min |
| | | | Step | 10 Min |
| | | On Timer | Program | No |
| | | Off Timer | Program | No |
| | | Game Timer | | No |
| | | Wake Up Timer | | No |
| | | Timer Back-up (at Power Off Mode) more than | | -- Min Sec |
| **G-10** | **Remote Control** | Unit | | RC-MR |
| | | Glow in Dark Remocon | | No |
| | | Remocon Format | | SHARP |
| | | Format | | TV:SHARP, DVD:KASEIKYO |
| | | Custom Code | | TV:SHARP 15bit, DVD:KASEIKYO 48bit |
| | | Power Source | Voltage(D.C) | 3V |
| | | | UM size x pcs | UM-3 x 2 pcs |
| | | Total Keys | | 47 Keys |
| | | Keys | POWER | Yes |
| | | | DISPLAY | Yes |
| | | | SLEEP | Yes |
| | | | VIEW MODE | Yes |
| | | | INPUT SELECT | Yes |
| | | | 1 | Yes |
| | | | 2 | Yes |
| | | | 3 | Yes |
| | | | 4 | Yes |
| | | | 5 | Yes |
| | | | 6 | Yes |
| | | | 7 | Yes |
| | | | 8 | Yes |
| | | | 9 | Yes |
| | | | 0 | Yes |
| | | | MUTE | Yes |
| | | | AUDIO | Yes |
| | | | VOL+ | Yes |
| | | | VOL- | Yes |
| | | | CH+ | Yes |
| | | | CH- | Yes |
| | | | LEFT/SLOW- | Yes |
| | | | ENTER | Yes |
| | | | RIGHT/SLOW+ | Yes |
| | | | UP | Yes |
| | | | DOWN | Yes |
| | | | SETUP/TV MENU | Yes |
| | | | EXIT/CANCEL | Yes |
| | | | RETURN | Yes |
| | | | ･/SUBTITLE | Yes |
| | | | TV/DVD | Yes |
| | | | OPEN/CLOSE(EJECT) | Yes |
| | | | FWD(SEARCH+) | Yes |
| | | | REV(SEARCH-) | Yes |
| | | | SKIP+ | Yes |
| | | | SKIP- | Yes |
| | | | PAUSE/STILL | Yes |
| | | | PLAY | Yes |
| | | | STOP | Yes |
| | | | PLAY MODE | Yes |
| | | | ANGLE | Yes |
| | | | ZOOM | Yes |
| | | | DVD MENU | Yes |
| | | | TOP MENU | Yes |
| | | | REPAT A-B | Yes |
| | | | MARKER | Yes |
| | | | DIRECT SKIP(JUMP) | Yes |
| | | | FREEZE | No |

# GENERAL SPECIFICATIONS

| | | | | |
|---|---|---|---|---|
| **G-11** | **Features (TV)** | Auto Shut Off | | Yes |
| | | Auto Search | | No |
| | | Power On Memory | | No |
| | | Comb Filter | | Yes<br>3 -D |
| | | Game Position | | No |
| | | Auto Setup(Language/CH Program) | | No |
| | | Picture Setting(TV) | | Yes |
| | | | AV Mode(Picture Preference) | Yes |
| | | | Brightness , Contrast , Color | Yes |
| | | | Tint | Yes |
| | | | Sharpness | Yes |
| | | | Color Temperature | Yes |
| | | | Cable Clear | No |
| | | Audio | MTS | Yes |
| | | | Tone Control (Bass/Treble/Balance) | Yes |
| | | | Stable Sound | No |
| | | | Surround | No |
| | | | BBE | No |
| | | | SRS WOW (SRS 3D/Focus/Tru Bass) | Yes |
| | | | Valiable Audio Out | Yes |
| | | Tuning | CH Program | Yes |
| | | | Air/Cable | Yes |
| | | | ADD/DELETE | Yes |
| | | Label | CH Label | Yes |
| | | | Video Label | Yes |
| | | Favorite CH | | No |
| | | V-Chip | | Yes |
| | | | Type | USA/CANADA Type |
| | | RRT Setup | | Yes |
| | | Lock | Hotel Lock | No |
| | | | Channel Lock | No |
| | | | Video Lock | No |
| | | | Panel Lock | No |
| | | OSD Language | | English<br>French |
| | | Closed Caption | | Yes |
| | | CC Advanced | | Yes |
| | | View Mode (Picture Size) | | Yes |
| | | Picture Scroll | | Yes |
| | | Cinema Mode | | Yes |
| | | Aspect | | Yes |
| | | Backlight | | Yes |
| | | PFC(Power Factor circuit) | | No |
| | | Freeze frame | | No |
| | | PIP/POP | | No |
| | | Direct Input Selection | | Yes |
| | | Digital Out | Dolby Digital | Yes |
| | | | MPEG | No |
| | | | PCM | Yes |
| | | | DTS | No |
| | | PC Monitor Input | | No |
| | | | VGA (640x480) | No |
| | | | VGA (720x400) | No |
| | | | WVGA (848x480) | No |
| | | | SVGA (800x600) | No |
| | | | XGA (1024x768) | No |
| | | | WXGA (1280x768) | No |
| | | | WXGA (1280x720) | No |
| | | | WXGA (1360x768) | No |
| | | | SXGA (1280x1024) | No |
| | | HDMI Input | | Yes |
| | | | VGA (640×480) | Yes (60Hz) |
| | | | 720x480i (4:3) | Yes (60Hz) |
| | | | 720x480i (16:9) | Yes (60Hz) |
| | | | 720x480p (4:3) | Yes (60Hz) |
| | | | 720x480p (16:9) | Yes (60Hz) |
| | | | 720x576i (4:3) | No |
| | | | 720x576i (16:9) | No |
| | | | 720x576p (4:3) | No |
| | | | 720x576p (16:9) | No |
| | | | 1280x720p | Yes (60Hz) |
| | | | 1920x1080i | Yes (60Hz) |

# GENERAL SPECIFICATIONS

| | | | | |
|---|---|---|---|---|
| | | Component Input | | Yes |
| | | | 720x480i (4:3) | Yes (60Hz) |
| | | | 720x480i (16:9) | Yes (60Hz) |
| | | | 720x480p (4:3) | Yes (60Hz) |
| | | | 720x480p (16:9) | Yes (60Hz) |
| | | | 720x576i (4:3) | No |
| | | | 720x576i (16:9) | No |
| | | | 720x576p (4:3) | No |
| | | | 720x576p (16:9) | No |
| | | | 1280x720p | Yes (60Hz) |
| | | | 1920x1080i | Yes (60Hz) |
| | **Features (DVD)** | Video CD Playback | | No |
| | | SVCD Playback | | No |
| | | MP3 Playback | | Yes |
| | | JPEG | | Yes |
| | | WMA | | Yes |
| | | Digital Out | (Dolby Digital) | Yes |
| | | | (MPEG) | Yes |
| | | | (PCM) | Yes |
| | | | (DTS) | Yes |
| | | Down Mix Out | (Dolby Digital) | Yes |
| | | | (DTS) | No |
| | | Closed Caption | | Yes |
| | | Screen Saver | | No |
| | | Audio DAC | | 192kHz / 24bit |
| **G-12** | **Accessories** | Owner's Manual | Language | English/French/Spanish |
| | | | w/Guarantee Card | Yes |
| | | Remote Control Unit | | Yes |
| | | Rod Antenna | | No |
| | | | Poles | -- |
| | | | Terminal | -- |
| | | Loop Antenna | | No |
| | | | Terminal | -- |
| | | U/V Mixer | | No |
| | | DC Car Cord (Center+) | | No |
| | | Guarantee Card | | No |
| | | Warning Sheet | | No |
| | | Circuit Diagram | | No |
| | | Antenna Change Plug | | No |
| | | Service Facility List | | No |
| | | Important Safeguard | | No |
| | | Dew/AHC Caution Sheet | | No |
| | | Quick Set-up Sheet | | No |
| | | Battery | | Yes |
| | | | UM size x pcs | UM-3 x 2 pcs |
| | | | OEM Brand | No |
| | | AC Adapter | | No |
| | | AC Cord (for AC Adapter) | | No |
| | | AC Cord (Flat Polarity Plugs) | | Yes |
| | | Cable Cramp | | Yes |
| | | Stand | | Yes |
| | | Stand Screw | | Yes |
| | | Hexagon Wrench | | Yes |
| | | AV Cord (2Pin-1Pin) | | No |
| | | Registration Card (NDL Card) | | Yes |
| | | 300 to 75ohm Antenna Adapter | | No |

# GENERAL SPECIFICATIONS

| | | | | | |
|---|---|---|---|---|---|
| **G-13** | **Interface** | Switch | Top | Power (Tact) | Yes |
| | | | | Channel Up/Menu Up | Yes |
| | | | | Channel Down/Menu Down | Yes |
| | | | | Volume Up/Menu > | Yes |
| | | | | Volume Down/Menu < | Yes |
| | | | | Menu | No |
| | | | | Play | Yes |
| | | | | Eject | Yes |
| | | | | Skip+, Search+ | Yes |
| | | | | Skip-, Search- | Yes |
| | | | | Still/Pause | No |
| | | | | Stop | Yes |
| | | | | Main Power SW | No |
| | | | | Input Select | Yes |
| | | | Rear | Main Power SW | No |
| | | Indicator | | Power/Stand-By | Yes (Green / Red) |
| | | | | On Timer | No |
| | | Terminals | Rear | Video Input 1 | RCA x 1 |
| | | | | Audio Input 1 | RCA x 2(L/MONO, R) |
| | | | | S - Input 1 | Yes |
| | | | | Video Input 2 | RCA x 1 |
| | | | | Audio Input 2 | RCA x 2(L/MONO, R) |
| | | | | S - Input 2 | Yes |
| | | | | Video Output | No |
| | | | | Audio Output | RCA x 2 (Variable) (L, R) |
| | | | | Component Input 1 | RCA x 3 |
| | | | | Analog Audio | RCA x 2(L/MONO, R) |
| | | | | Component Input 2 | No |
| | | | | Analog Audio | No |
| | | | | HDMI Input | HDMI x 1 |
| | | | | Analog Audio | RCA x 2(L/MONO, R) |
| | | | | Sub Woofer Out | No |
| | | | | PC Monitor Input | No |
| | | | | Analog Audio | No |
| | | | | Digital Audio Output | Coaxial |
| | | | | DC Jack (Center +) | No |
| | | | | VHF/UHF Antenna Input | F Type |
| | | | | AC Inlet | Yes |
| | | | Side | Video Input 3 | No |
| | | | | Audio Input 3 | No |
| | | | | S - Input 3 | No |
| | | | | Other Terminal | No |
| **G-14** | **Set Size** | | | Approx. W x D x H (mm) | 682.5 x 282.5 x 565 |
| | | | | w/o Handle, Stand Approx. W x D x H (mm) | 682.5x 111.5 x 506 |
| **G-15** | **Weight** | | | Net (Approx.) | 13.8kg (30.4lbs) |
| | | | | Net w/o Handle, Stand (Approx.) | 12.1kg (26.7lbs) |
| | | | | Gross (Approx.) | 16.5kg (36.4lbs) |
| **G-16** | **Carton** | | Master Carton | | No |
| | | | | Content | --- Sets |
| | | | | Material | --- / --- |
| | | | | Dimensions W x D x H(mm) | --- |
| | | | | Description of Origin | --- |
| | | | Gift Box | Material | Double/Brown |
| | | | | W/Color Photo Label | No |
| | | | | W/Handle | No |
| | | | | Dimensions W x D x H(mm) | 781 x 255 x 622 |
| | | | | Description of Origin | Yes |
| | | | Drop Test | | 1 Corner / 3 Edges / 6 Surfaces |
| | | | | Height (cm) | 32(ORION SPEC:46) |
| | | | Container Stuffing (40' container) | | 405 Sets/40' container |
| **G-17** | **Material** | | Cabinet | Front | PS 94V0 NON-DECABROM |
| | | | | Rear | PS 94V0 NON-DECABROM |
| | | | | Jack Panel | -- |
| | | | PCB | Non-Halogen Demand | No |
| | | | | Eyelet Demand | Yes |
| **G-18** | **Environment** | | Environmental standard requirement | | Green procurement of SHARP |
| | | | Pb-free | | Phase3(Phase3A) |
| | | | | Measures for Whisker | Yes |
| | | | Rohs | | Yes |

# DISASSEMBLY INSTRUCTIONS

## 1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

### 1-1: BACK CABINET (Refer to Fig. 1-1)

1. Remove the 19 screws ①.
2. Remove the Back Cabinet in the direction of arrow.

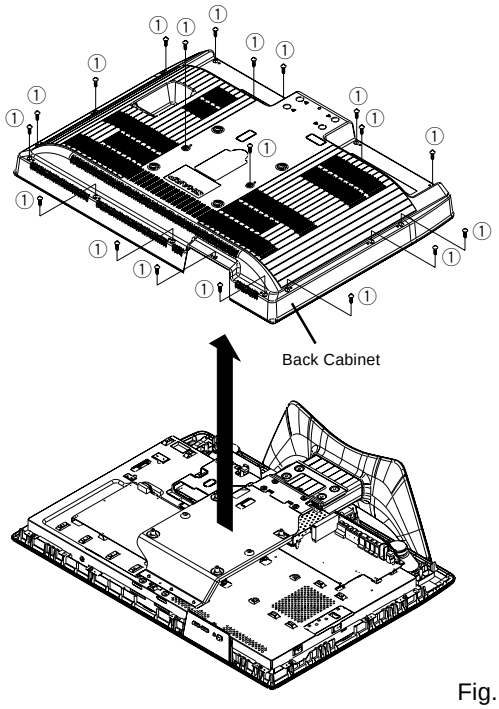



Fig. 1-1

### 1-2: STAND ASS'Y/ANGLE BACK 1/2/PLATE JACK 1/2 (Refer to Fig. 1-2)

1. Remove the 4 screws ①.
2. Remove the Stand Ass'y in the direction of arrow (A).
3. Remove the 4 screws ②.
4. Remove the 6 screws ③.
5. Remove the Angle Back 1/2 in the direction of arrow (B).
6. Remove the 4 screws ④.
7. Remove the Plate Jack 2 in the direction of arrow (C).
8. Remove the 11 screws ⑤.
9. Remove the Plate Jack 1 and Shield Jack in the direction of arrow (D).

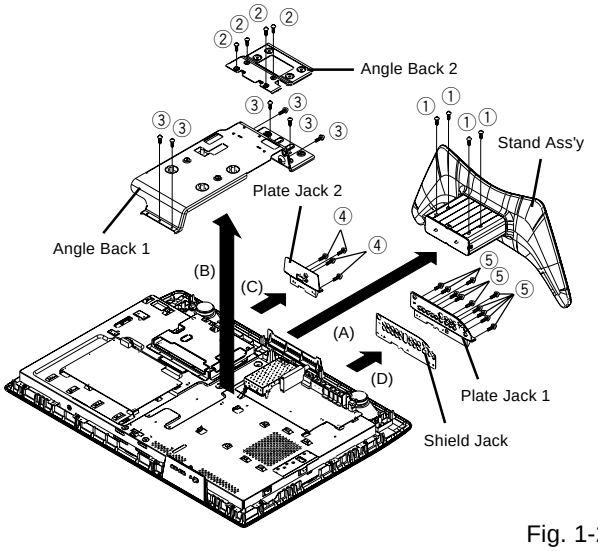



Fig. 1-2

### 1-3: PCB ASS'Y (Refer to Fig. 1-3)

1. Disconnect the following connectors: (CP506, CP507, CP508, CP510, CP511, CP512).
2. Remove the 9 screws ①.
3. Remove the Holder AC-Inlet and Power PCB in the direction of arrow (A).
4. Disconnect the following connectors: (CP802, CP803, CP2200, CP3201, CP3602, CP7203).
5. Remove the 10 screws ②.
6. Remove the Shield Scaler and Scaler PCB in the direction of arrow (B).
7. Disconnect the following connectors: (CP301, CP302, CP2403, CP2404, CP4202).
8. Remove the 6 screws ③.
9. Remove the DigitalPCB and AV PCB in the direction of arrow (C).
10. Remove the 2 screws ④.
11. Remove the Remocon PCB in the direction of arrow (D).
12. Remove the 5 screws ⑤.
13. Remove the Plate Button and Operation PCB in the direction of arrow (E).

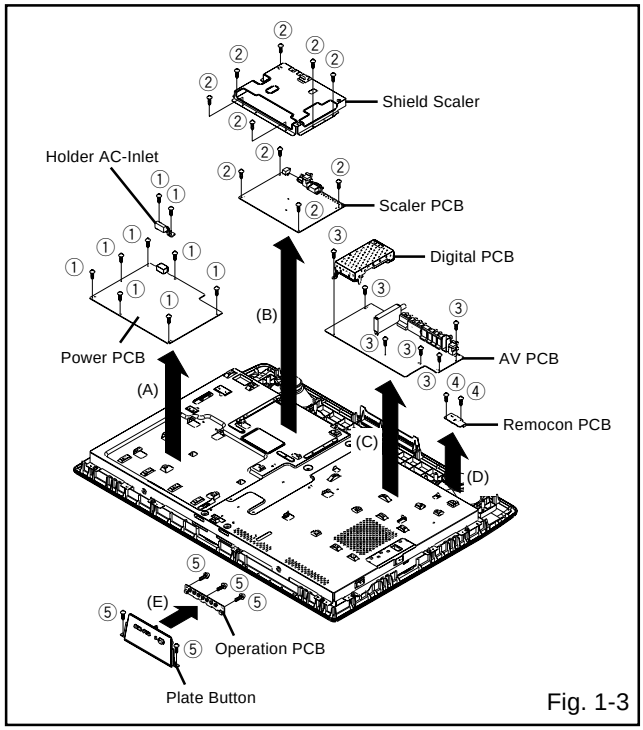



Fig. 1-3

# DISASSEMBLY INSTRUCTIONS

**1-4: LCD COVER/LCD PANEL (Refer to Fig. 1-4)**

1. Remove the 8 screws ①.
2. Remove the LCD Cover in the direction of arrow (A).
3. Remove the 4 screws ②.
4. Remove the LCD Panel in the direction of arrow (B).

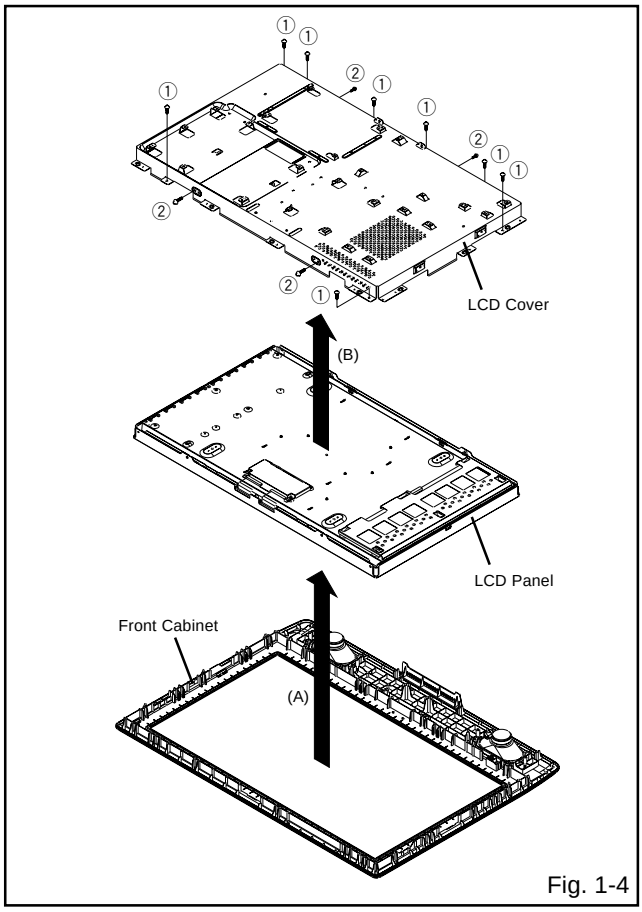



Fig. 1-4

# DISASSEMBLY INSTRUCTIONS

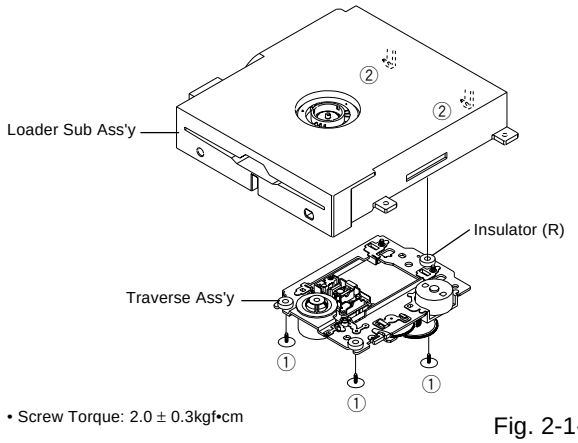
## 2. REMOVAL OF DVD DECK PARTS

**NOTE**

1. Disassemble only the DVD DECK PARTS parts listed here. Minute adjustments are needed if the disassembly is done. If the repair is needed except listed parts, replace the DVD MECHA ASS'Y.

### 2-1: TRAVERSE ASS'Y (Refer to Fig. 2-1-A)

1. Remove the 3 screws ①.
2. Unlock the 2 supports ②.
3. Remove the Insulator (R) from the Loader Sub Ass'y.
4. Remove the Traverse Ass'y.




• Screw Torque: 2.0 ± 0.3kgf•cm

Fig. 2-1-A

**NOTE**

1. In case of the Traverse Ass'y installation, hook the wire on the Loader Ass'y as shown Fig. 2-2-B to Fig. 2-2-D.

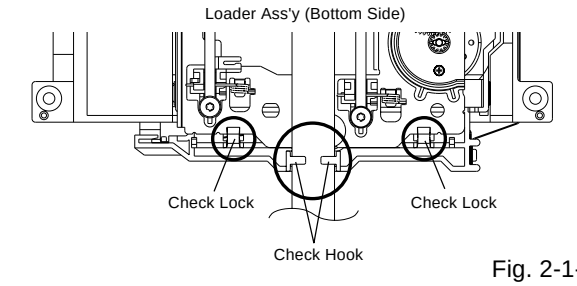



Fig. 2-1-B

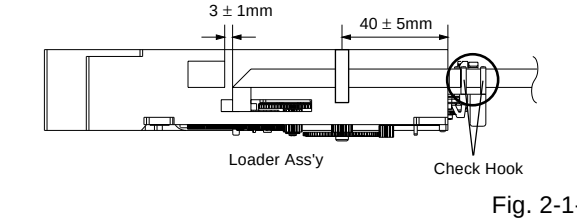



Fig. 2-1-C

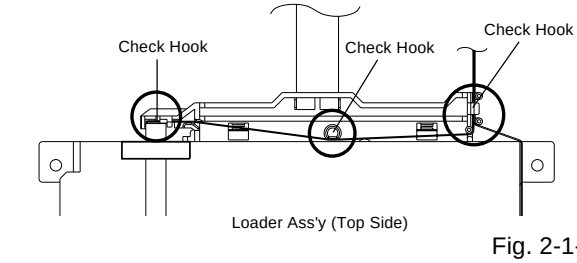
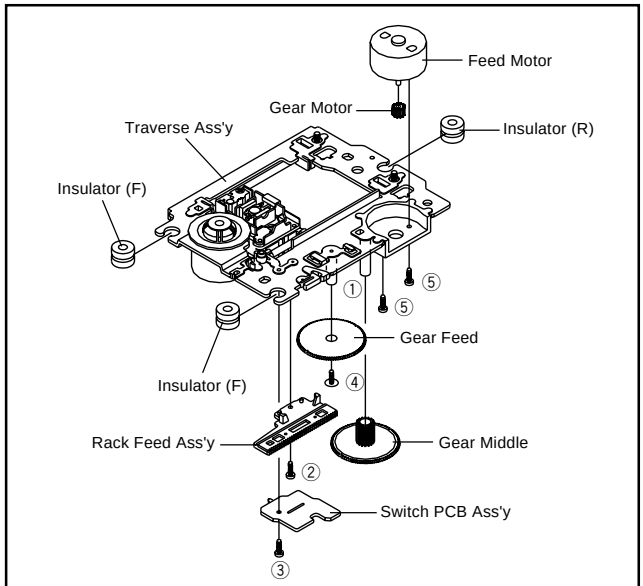



Fig. 2-1-D

### 2-2: SWITCH PCB ASS'Y/GEAR MIDDLE/GEAR FEED/RACK FEED ASS'Y/FEED MOTOR (Refer to Fig. 2-2-A)

1. Remove the Insulator (F).
2. Remove the Insulator (R).
3. Unlock the support ①.
4. Remove the Gear Middle.
5. Remove the screw ②.
6. Remove the Rack Feed Ass'y.
7. Remove the screw ③.
8. Remove the Switch PCB Ass'y.
9. Remove the screw ④.
10. Remove the Gear Feed.
11. Remove the 2 screws ⑤.
12. Remove the Feed Motor.
13. Remove the Gear Motor.




• Screw Torque: 1.3 ± 0.3kgf•cm (Screw ②)
• Screw Torque: 3.0 ± 0.3kgf•cm (Screw ③)
• Screw Torque: 1.0 ± 0.3kgf•cm (Screw ④, ⑤)

Fig. 2-2-A

**NOTE**

1. When installing the Rack Feed Ass'y, push both ends to align the teeth as shown Fig. 2-2-B. Then install it.
2. In case of the Gear Motor installation, check if the value of the Fig. 2-2-C is correct.
3. When installing the wire of the Switch PCB Ass'y, install it correctly as Fig. 2-2-D.
   Manual soldering conditions
   • Soldering temperature: 350 ± 5˚C
   • Soldering time: Within 4 seconds
   • Soldering combination: Sn-3.0Ag-0.5Cu
4. After the assembly of the Traverse Ass'y, hook the wire on the Traverse Ass'y as shown Fig. 2-2-E.

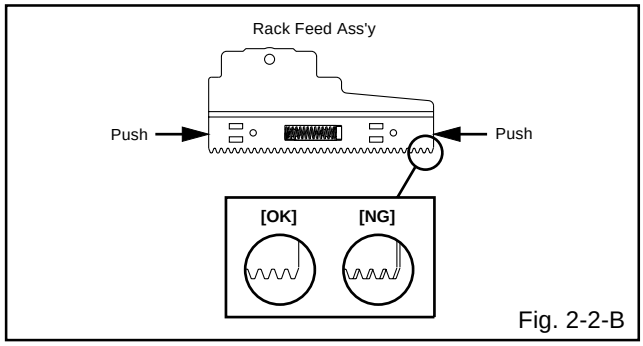



Fig. 2-2-B

# DISASSEMBLY INSTRUCTIONS

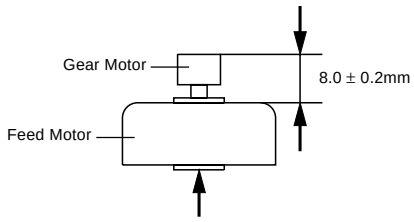



Fig. 2-2-C

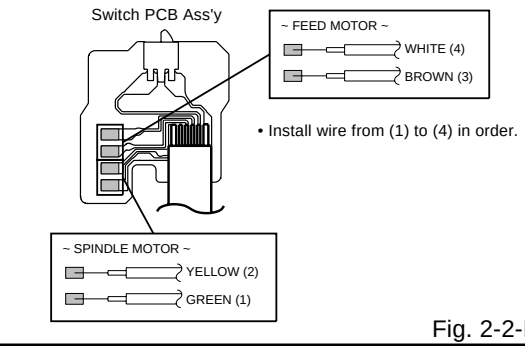



Fig. 2-2-D

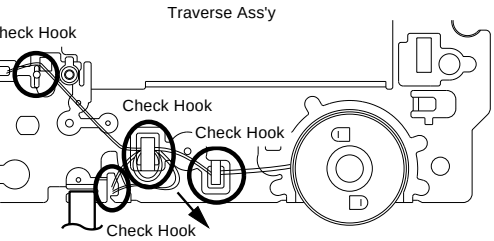



Fig. 2-2-E

**2-3: FFC WIRE HANDLING**

1. When installing the FFC, fold it correctly and install it as shown from Fig. 2-3-A to Fig. 2-3-B.

**NOTE**

1. Do not make the folding lines except the specified positions for the FFC.

**[ 24 pin FFC ]**

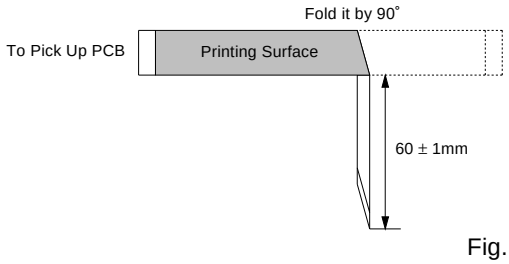



Fig. 2-3-A

**[ 6 pin FFC ]**

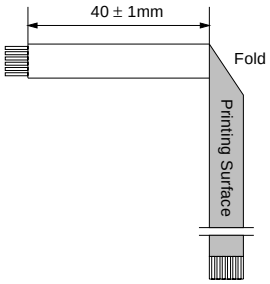



Fig. 2-3-B

# DISASSEMBLY INSTRUCTIONS

## 3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

**REMOVAL**

1. Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. **(Refer to Fig. 3-1.)**

   **NOTE**

   Masking is carried out on all the parts located within 10 mm distance from IC leads.

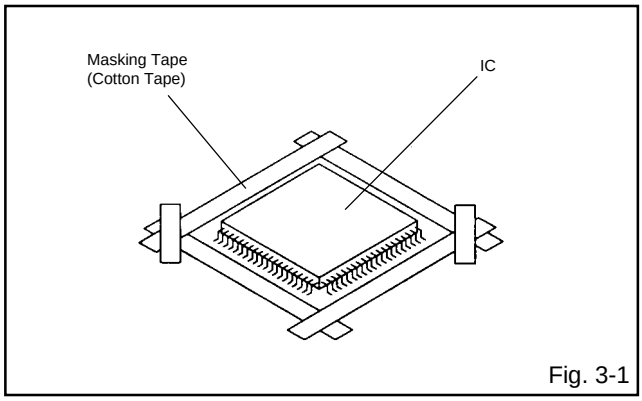


Fig. 3-1

2. Heat the IC leads using a blower type IC desoldering machine. **(Refer to Fig. 3-2.)**

   **NOTE**

   Do not rotate or move the IC back and forth , until IC can move back and forth easily after desoldering the leads completely.

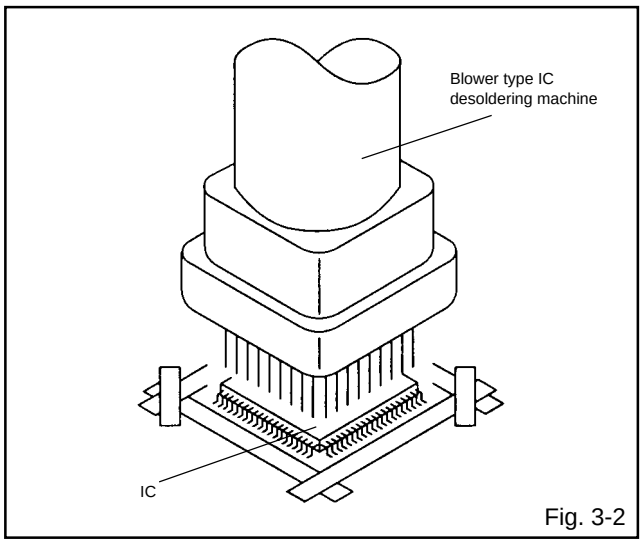


Fig. 3-2

3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using tweezers and remove the IC by moving with the IC desoldering machine. **(Refer to Fig. 3-3.)**

   **NOTE**

   Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.

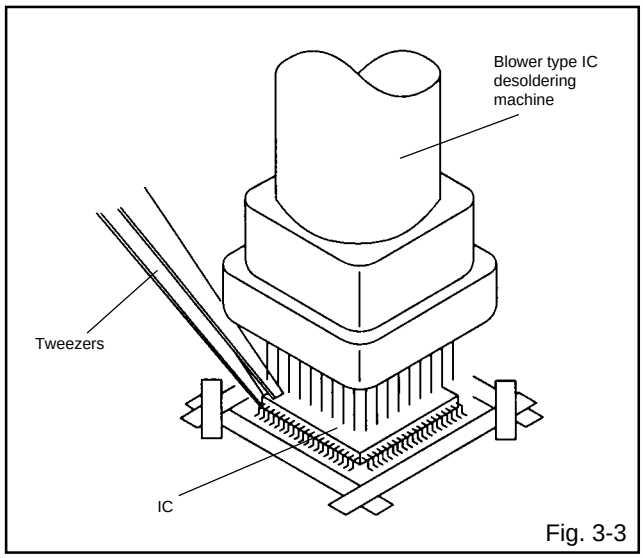


Fig. 3-3

4. Peel off the Masking Tape.

5. Absorb the solder left on the pattern using the Braided Shield Wire. **(Refer to Fig. 3-4.)**

   **NOTE**

   Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.

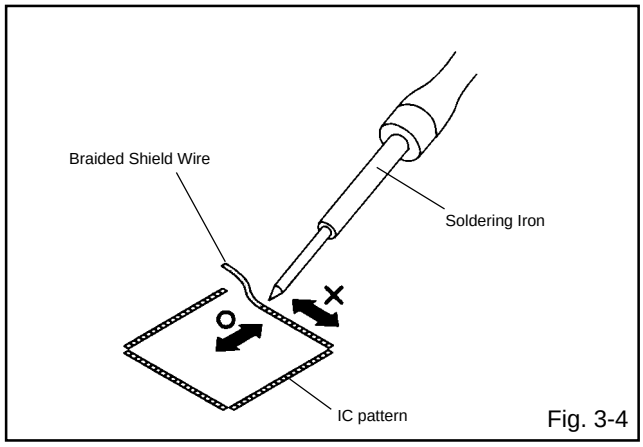


Fig. 3-4

# DISASSEMBLY INSTRUCTIONS

**INSTALLATION**

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. **(Refer to Fig. 3-5.)**

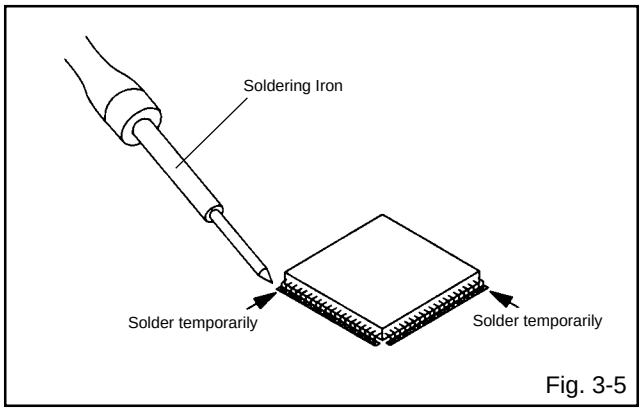


Fig. 3-5

2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. **(Refer to Fig. 3-6.)**

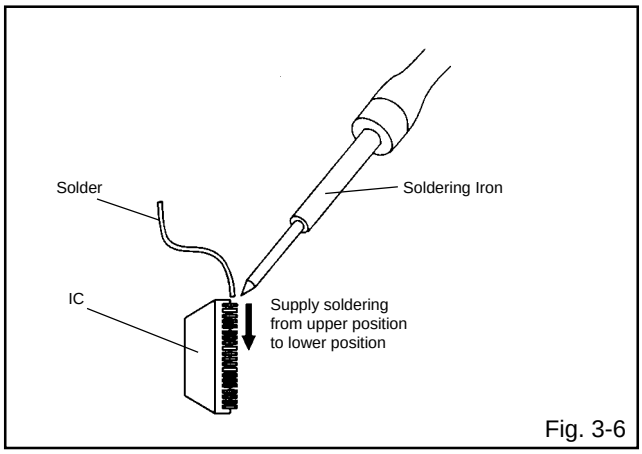


Fig. 3-6

3. Absorb the solder left on the lead using the Braided Shield Wire. **(Refer to Fig. 3-7.)**

   **NOTE**

   Do not absorb the solder to excess.

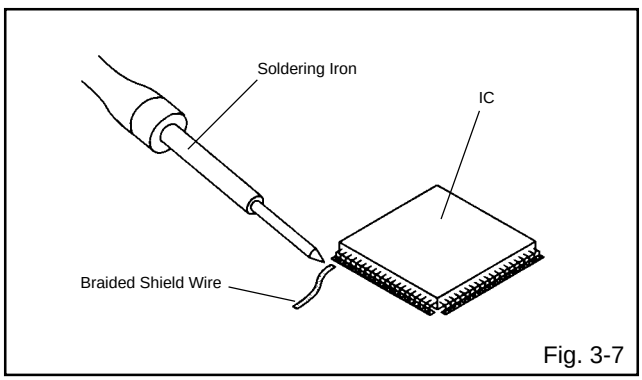


Fig. 3-7

4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. **(Refer to Fig. 3-8.)**

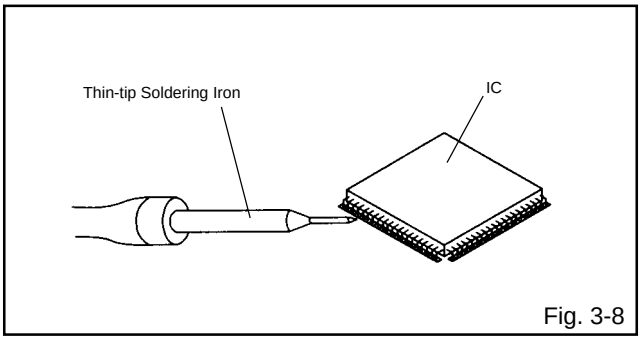


Fig. 3-8

5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass.
   Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

   **NOTE**

   When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, always be sure to replace the IC in this case.

# SERVICE MODE LIST

This unit is provided with the following SERVICE MODES so you can repair, examine and adjust easily.

To enter to the SERVICE MODE function, press and hold both buttons simultaneously on the main unit and on the remote control for more than the standard time in the appropriate condition. (See below chart.)

| Set Condition | Set Key | Remocon Key | Standard Time | Operations |
|---|---|---|---|---|
| TV mode | VOL. DOWN (Minimum) | 0 | 2 sec. | Releasing of V-CHIP PASSWORD. |
| TV mode | VOL. DOWN (Minimum) | 1 | 2 sec. | Initialization of factory TV data.<br>NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours. |
| DVD mode (No disc) | VOL. DOWN (Minimum) | 4 | 2 sec. | Initialization of factory DVD data.<br>NOTE: Do not use this for normal servicing. |
| TV mode | VOL. DOWN (Minimum) | 6 | 2 sec. | Can be checked of the INITIAL DATA of MEMORY IC.<br>Refer to the "WHEN REPLACING EEPROM (MEMORY) IC". |
| ALL mode | VOL. DOWN (Minimum) | 8 | 2 sec. | Check of the SUM DATA, POWER ON total hours, MICON VERSION and DIGITAL TV MICON FIRMWARE on the screen.<br>Refer to the "WHEN REPLACING EEPROM (MEMORY) IC". |
| ALL mode | VOL. DOWN (Minimum) | 9 | 2 sec. | Display of the Adjustment MENU on the screen.<br>Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment). |
| DVD mode (No disc) | STOP | 7 | 2 sec. | Releasing of PARENTAL LOCK.<br>Refer to the “PARENTAL CONTROL - RATING LEVEL”. |

# WHEN REPLACING EEPROM (MEMORY) IC

## CONFIRMATION OF CHECK SUM, POWER ON TOTAL HOURS, MICON VERSION AND DIGITAL TV MICON FIRMWARE

Initial total of MEMORY IC, POWER ON total hours, MICON VERSION and Digital TV MICON Firmware can be checked on the screen. Total hours are displayed in 16 system of notation.

**NOTE: If you set a factory initialization, the total hours is reset to "0".**
**Please refer to "CONFIRMATION OF INITIAL DATA" when SUM DATA is not corresponding.**

1. Turn on the POWER, and set to the TV mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(8)** on the remote control for more than 2 seconds.
4. After the confirmation of each check sum, POWER ON total hours, MICON VERSION and Digital TV MICON Firmware, turn off the power.

   *1 DVP1 is different according to each set.

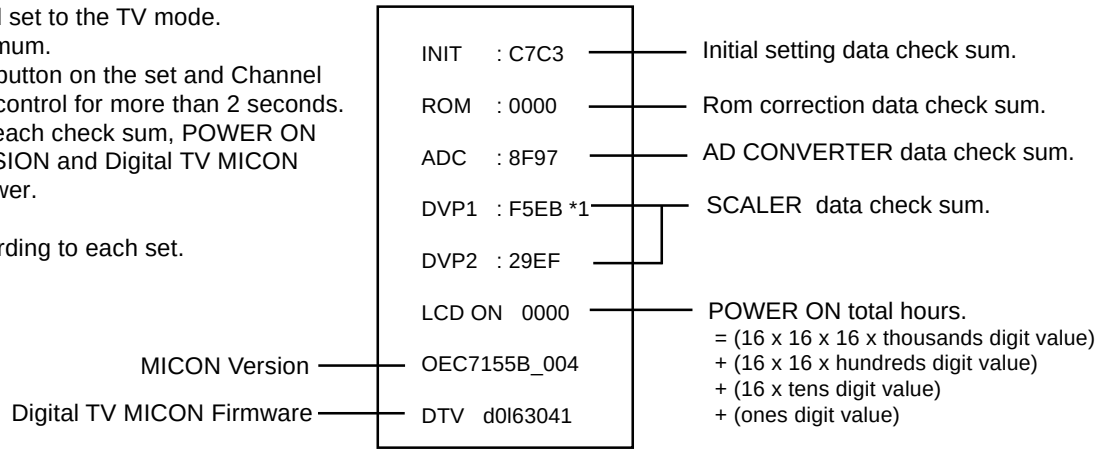

INIT : C7C3
Initial setting data check sum.
ROM : 0000
Rom correction data check sum.
ADC : 8F97
AD CONVERTER data check sum.
DVP1 : F5EB *1
DVP2 : 29EF
SCALER data check sum.
LCD ON 0000
POWER ON total hours.
= (16 x 16 x 16 x thousands digit value)
+ (16 x 16 x hundreds digit value)
+ (16 x tens digit value)
+ (ones digit value)
MICON Version
OEC7155B_004
Digital TV MICON Firmware
DTV d0l63041

**FIG. 1**

## CONFIRMATION OF INITIAL DATA

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to INITIAL SETTING TABLE (Attached "INITIAL DATA").

1. Turn on the POWER, and set to the TV mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 2.

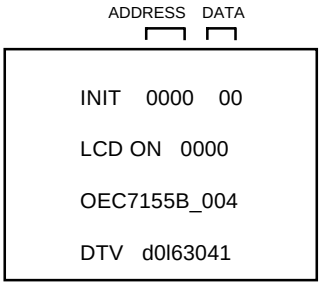



**FIG. 2**

4. ADDRESS is now selected and should "blink". Using the UP/DOWN buton on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
5. Press RIGHT/LEFT button to select DATA. When DATA is selected, it will "blink".
6. Again, step through the DATA using UP/DOWN button until required DATA value has been selected.
7. Pressing RIGHT/LEFT button will take you back to ADDRESS for further selection if necessary.
8. Repeat steps 4 to 6 until all data has been checked.
9. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

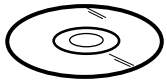
**After the data input, set to the initializing of shipping.**

10. Turn POWER on.
11. Press both VOL. DOWN button on the set and Channel button **(1)** on the remote control for more than 2 seconds.
12. After the finishing of the initializing of shipping, the unit will turn off automatically.

The unit will now have the correct DATA for the new MEMORY IC.

# RE-WRITE FOR DIGITAL SOFT FIRMWARE

JG176 USA HD DTV ROM DISC



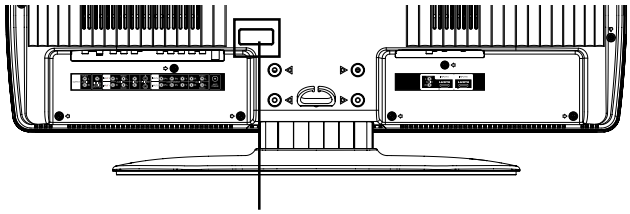
| Ref. No. | Part No. | Parts Name | Remarks |
|---|---|---|---|
| JG176 | APJG176095 | USA HD DTV ROM DISC | Up-Date of the Firmware |

**NOTE:** The operating manual for Re-writing is included in USA HD DTV ROM DISC (JG176).

**Prepare the following tools for Up-Date of the Firmware.**

1 Computer of WINDOWS2000
2 USB Flash Memory **(Use only SanDisk Cruzer Mini USB Flash Drive 256Mb)**

## SET (REAR)



USB CONNECTOR

# ELECTRICAL ADJUSTMENTS

## 1. ADJUSTMENT PROCEDURE

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

**CAUTION**

- Use an isolation transformer when performing any service on this chassis.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
- When you exchange IC and Transistor with a heat sink, apply silicon grease **(YG6260M)** on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damage to the IC and Transistor).

**Prepare the following measurement tools for electrical adjustments.**

1. Pattern Generator

## 2. BASIC ADJUSTMENTS

**On-Screen Display Adjustment**

1. Set the VOLUME to minimum.
2. Press the VOL. DOWN button on the set and the channel button **(9)** on the remote control for more than 2 seconds to display adjustment mode on the screen as shown in **Fig. 2-1**.

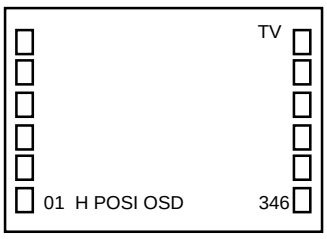



Fig. 2-1

3. Use the UP/DOWN button or Channel button **(0-9)** on the remote control to select the options shown in **Fig. 2-2**.
4. Press the MENU button on the remote control to end the adjustments.
5. To display the adjustment screen for AV, YUV, HDMI mode, press the INPUT button on the remote control to set to the AV, YUV, HDMI mode. Press the VOL.DOWN button on the set and the channel **(9)** on the remote control for more than 2 seconds.

| NO. | FUNCTION | NO. | FUNCTION |
|---|---|---|---|
| 01 | H POSI OSD | 22 | H POSI 60Hz |
| 02 | V POSI OSD | 24 | V POSI 60Hz |
| 03 | R DRIVE (N) | 25 | BAK LIGHT CENT |
| 04 | R CUTOFF (N) | 26 | BAK LIGHT MAX |
| 05 | G DRIVE (N) | 27 | BAK LIGHT MIN |
| 06 | G CUTOFF (N) | 28 | BRIGHT CENT |
| 07 | B DRIVE (N) | 29 | BRIGHT MAX |
| 08 | B CUTOFF (N) | 30 | BRIGHT MIN |
| 09 | R DRIVE (C) | 31 | TINT |
| 10 | R CUTOFF (C) | 35 | CONTRAST CENTER |
| 11 | G DRIVE (C) | 36 | CONTRAST MAX |
| 12 | G CUTOFF (C) | 37 | CONTRAST MIN |
| 13 | B DRIVE (C) | 38 | COLOR CENT |
| 14 | B CUTOFF (C) | 39 | COLOR MAX |
| 15 | R DRIVE (W) | 40 | COLOR MIN |
| 16 | R CUTOFF (W) | 63 | CONTRAST 40 |
| 17 | G DRIVE (W) | 64 | BRIGHT (3F54) |
| 18 | G CUTOFF (W) | 65 | CONTRAST (3F55) |
| 19 | B DRIVE (W) | 66 | SRC TOP |
| 20 | B CUTOFF (W) | 67 | DFEA VIMGVT |

Fig. 2-2

**2-1: WHITE BALANCE**

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the gray scale pattern from the Pattern Generator.
3. Press the INPUT button on the remote control to set to the AV mode.
4. Using the remote control, set the brightness and contrast to normal position.
5. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(03)** on the remote control to select “R DRIVE (N)”.
6. Press the UP/DOWN button on the remote control to select the “R CUTOFF (N)”, “B DRIVE (N)”, “B CUTOFF (N)”, “R DRIVE (C)”, “R CUTOFF (C)”, “B DRIVE (C)”, “B CUTOFF (C)”, “R DRIVE (W)”, “R CUTOFF (W)”, “B DRIVE (W)” and “B CUTOFF (W)”.
7. Adjust the RIGHT/LEFT button on the remote control to whiten the R CUTOFF (N), B DRIVE (N), B CUTOFF (N), R DRIVE (C), R CUTOFF (C), B DRIVE (C), B CUTOFF (C), R DRIVE (W), R CUTOFF (W), B DRIVE (W) and B CUTOFF (W) at each step tone sections equally.
8. Perform the above adjustments 5 and 6 until the white color is looked like a white.

# ELECTRICAL ADJUSTMENTS

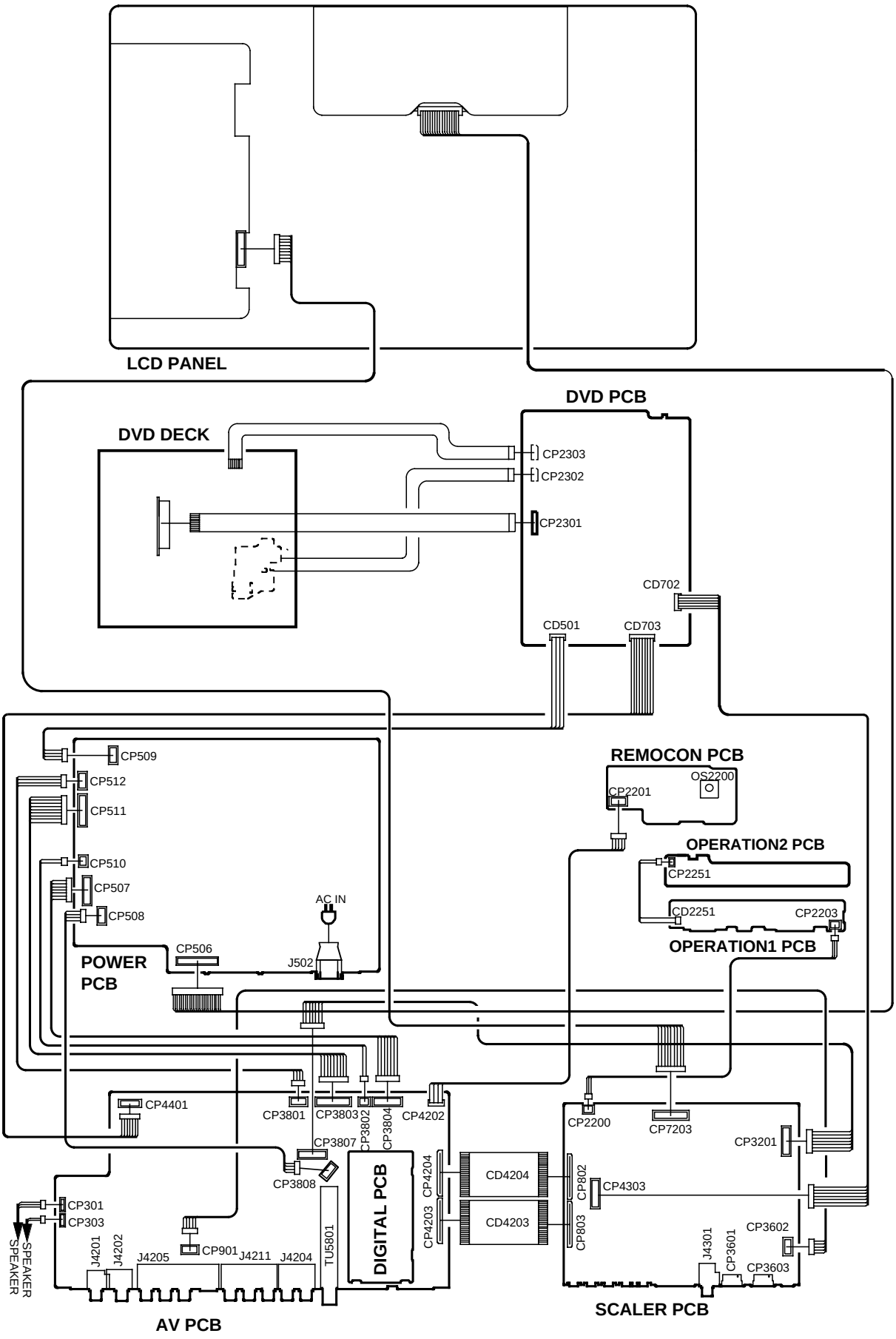
**2-2: Confirmation of Fixed Value (Step No.)**

Please check if the fixed values of each of the adjustment items are set correctly referring below. **(TV/AV/YUV/HD-MI)**

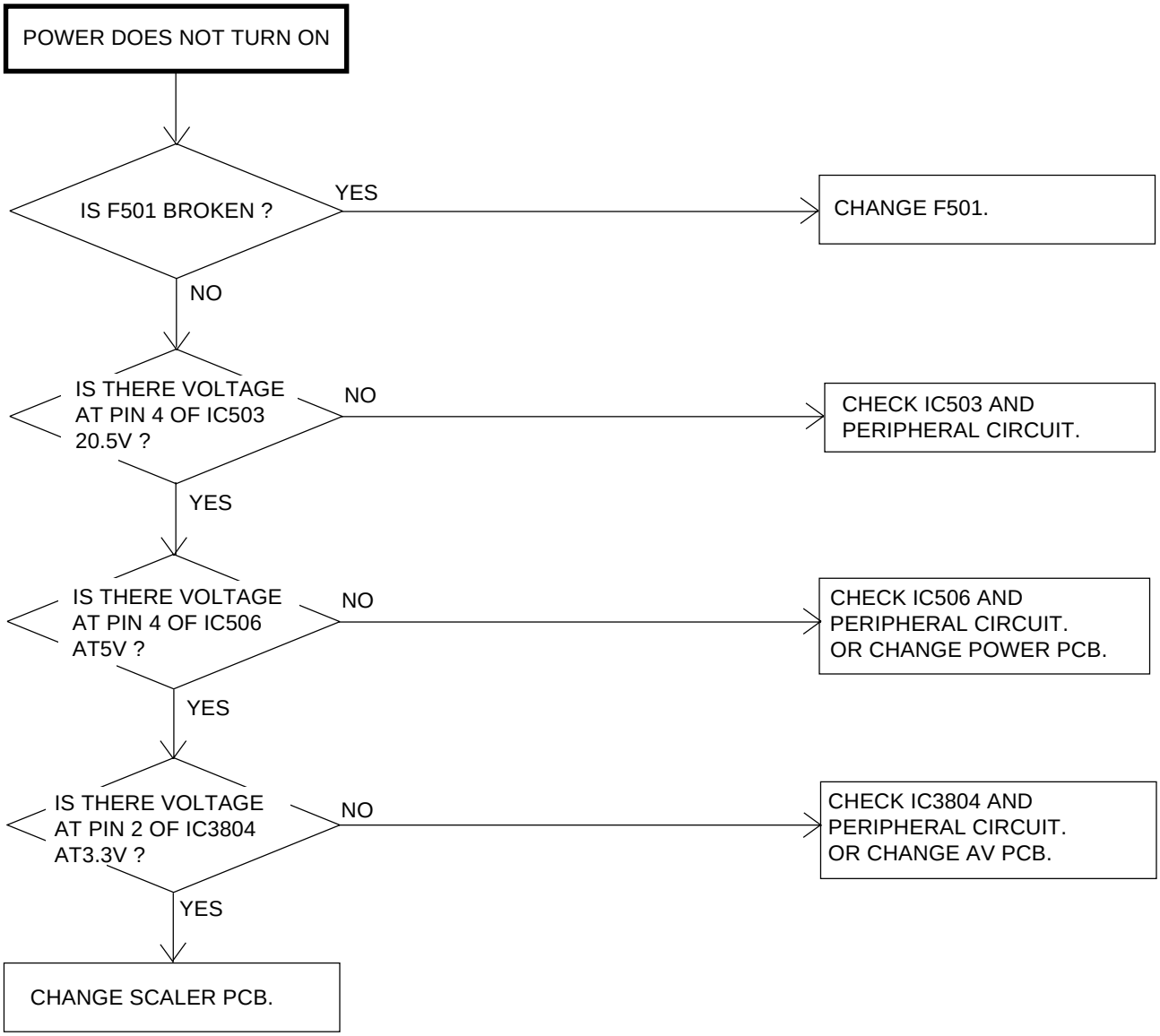
| NO. | FUNCTION | TV | TV 720p | AV | AV (S) | YUV | | | | HD-MI | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 480i | 480p | 720p | 1080i | 480i | 480p | 720p | 1080i | VGA |
| | | Step No. | Step No. | Step No. | Step No. | Step No. | Step No. | Step No. | Step No. | Step No. | Step No. | Step No. | Step No. | Step No. |
| 1 | H POSI OSD | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 | 346 |
| 2 | V POSI OSD | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| 3 | R DRIVE (N) | --- | 137 | --- | --- | 138 | 136 | 137 | 137 | 137 | 137 | 137 | 137 | 137 |
| 4 | G CUTOFF (N) | --- | 129 | --- | --- | 127 | 130 | 129 | 129 | 130 | 130 | 130 | 130 | 130 |
| 5 | G DRIVE (N) | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 6 | G CUTOFF (N) | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 7 | B DRIVE (N) | --- | 108 | --- | --- | 107 | 106 | 108 | 108 | 107 | 107 | 107 | 107 | 107 |
| 8 | B CUTOFF (N) | --- | 126 | --- | --- | 127 | 128 | 126 | 126 | 127 | 127 | 127 | 127 | 127 |
| 9 | R DRIVE (C) | --- | 134 | --- | --- | 134 | 135 | 134 | 134 | 135 | 135 | 135 | 135 | 135 |
| 10 | R CUTOFF (C) | --- | 129 | --- | --- | 127 | 128 | 129 | 129 | 128 | 128 | 128 | 128 | 128 |
| 11 | G DRIVE (C) | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 12 | G CUTOFF (C) | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 13 | B DRIVE (C) | --- | 130 | --- | --- | 128 | 129 | 130 | 130 | 130 | 130 | 130 | 130 | 130 |
| 14 | B CUTOFF (C) | --- | 125 | --- | --- | 127 | 125 | 125 | 125 | 124 | 124 | 124 | 124 | 124 |
| 15 | R DRIVE (W) | --- | 159 | --- | --- | 160 | 160 | 159 | 159 | 159 | 159 | 159 | 159 | 159 |
| 16 | R CUTOFF (W) | --- | 128 | --- | --- | 127 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 17 | G DRIVE (W) | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 18 | G CUTOFF (W) | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 19 | B DRIVE (W) | --- | 81 | --- | --- | 82 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| 20 | B CUTOFF (W) | --- | 128 | --- | --- | 127 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 22 | H POSI 60Hz | 276 | 320 | 276 | 276 | 276 | 134 | 322 | 122 | 266 | 134 | 284 | 228 | 156 |
| 22 | H POSI (SIDE BAR) | 284 | 322 | 284 | 284 | 284 | 140 | --- | --- | 274 | 140 | --- | --- | 160 |
| 24 | V POSI 60Hz | 23 | 63 | 23 | 23 | 34 | 34 | 55 | 38 | 35 | 34 | 54 | 38 | 34 |
| 25 | BAK LIGHT CENT | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| 26 | BAK LIGHT MAX | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| 27 | BAK LIGHT MIN | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 28 | BRIGHT CENT | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 |
| 29 | BRIGHT MAX | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 | 156 |
| 30 | BRIGHT MIN | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| 31 | TINT | 108 | 128 | 108 | 110 | 115 | 122 | 122 | 122 | 122 | 132 | 131 | 132 | 132 |
| 35 | CONTRAST CENTER(N) | --- | 108 | --- | --- | 163 | 107 | 108 | 108 | 113 | 113 | 113 | 113 | 113 |
| 36 | CONTRAST MAX(N) | --- | 148 | --- | --- | 223 | 146 | 148 | 148 | 155 | 155 | 155 | 155 | 155 |
| 37 | CONTRAST MIN(N) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 38 | COLOR CENT | 90 | 115 | 100 | 96 | 83 | 115 | 115 | 115 | 77 | 77 | 77 | 74 | 77 |
| 39 | COLOR MAX | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
| 40 | COLOR MIN | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 63 | CONTRAST 40 | --- | 142 | --- | --- | 215 | 140 | 142 | 142 | 149 | 149 | 149 | 149 | 149 |
| 64 | BRIGHT (3F54) | --- | 128 | --- | --- | 120 | 126 | 128 | 128 | 113 | 113 | 113 | 113 | 113 |
| 65 | CONTRAST (3F55) | --- | 180 | --- | 140 | 182 | 180 | 180 | 122 | 122 | 122 | 122 | 122 | 122 |
| 66 | SRC TOP(STRECH) | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 66 | SRC TOP(SIDE BAR) | 20 | 20 | 20 | 20 | 20 | 20 | --- | --- | 20 | 20 | --- | --- | 20 |
| 66 | SRC TOP(CINEMA WIDE1) | 18 | 20 | 18 | 18 | 20 | 20 | --- | --- | 20 | 20 | --- | --- | 20 |
| 66 | SRC TOP(ZOOM) | 43 | 43 | 43 | 43 | 43 | 43 | --- | --- | 43 | 43 | --- | --- | 43 |
| 66 | SRC TOP(S.STRECH) | 26 | 26 | 26 | 26 | 26 | 26 | --- | --- | 26 | 26 | --- | --- | 26 |
| 67 | DEFA VIMGVT(STRECH) | 20 | 25 | 20 | 20 | 20 | 43 | 26 | 24 | 20 | 44 | 32 | 24 | 42 |
| 67 | DEFA VIMGVT(SIDE BAR) | 20 | 25 | 20 | 20 | 20 | 43 | --- | --- | 20 | 43 | --- | --- | 42 |
| 67 | DEFA VIMGVT(CINEMA WIDE1) | 20 | 28 | 20 | 20 | 20 | 44 | --- | --- | 20 | 44 | --- | --- | 42 |
| 67 | DEFA VIMGVT(ZOOM) | 50 | 28 | 50 | 50 | 50 | 104 | --- | --- | 50 | 104 | --- | --- | 102 |
| 67 | DEFA VIMGVT(S.STRECH) | 26 | 25 | 26 | 26 | 26 | 56 | --- | --- | 26 | 56 | --- | --- | 55 |

# ELECTRICAL ADJUSTMENTS

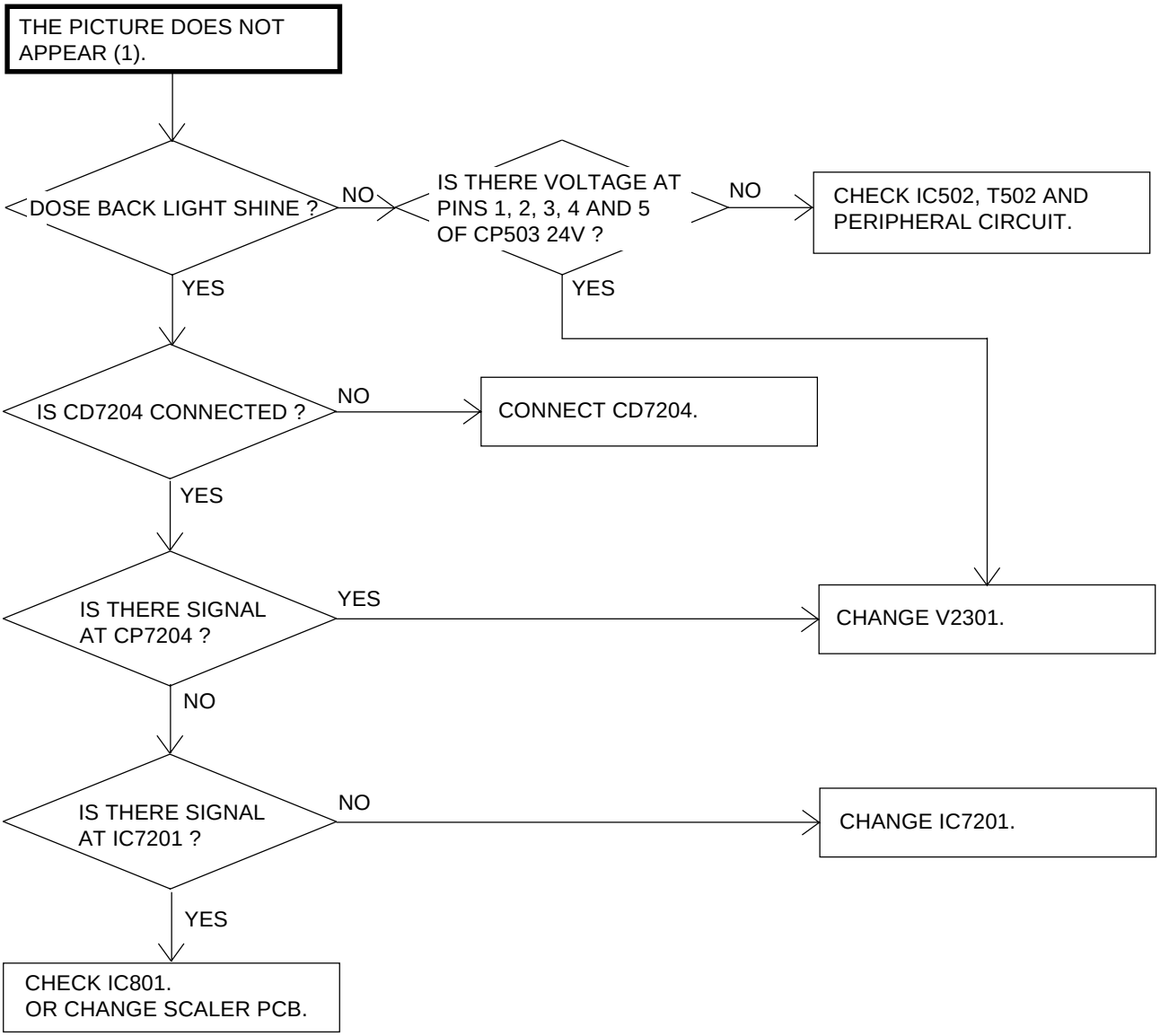
## 3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)



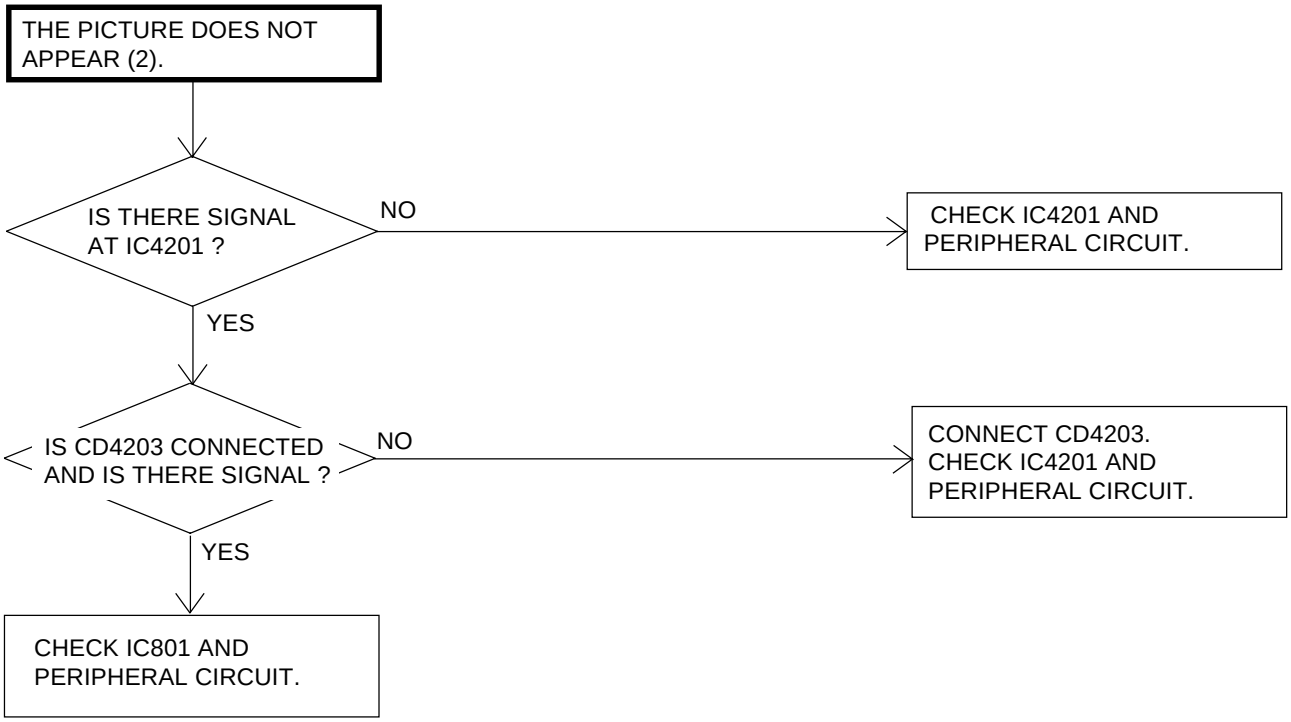
# TROUBLESHOOTING GUIDE


POWER DOES NOT TURN ON
IS F501 BROKEN ?
YES
CHANGE F501.
NO
IS THERE VOLTAGE AT PIN 4 OF IC503 20.5V ?
NO
CHECK IC503 AND PERIPHERAL CIRCUIT.
YES
IS THERE VOLTAGE AT PIN 4 OF IC506 AT5V ?
NO
CHECK IC506 AND PERIPHERAL CIRCUIT. OR CHANGE POWER PCB.
YES
IS THERE VOLTAGE AT PIN 2 OF IC3804 AT3.3V ?
NO
CHECK IC3804 AND PERIPHERAL CIRCUIT. OR CHANGE AV PCB.
YES
CHANGE SCALER PCB.

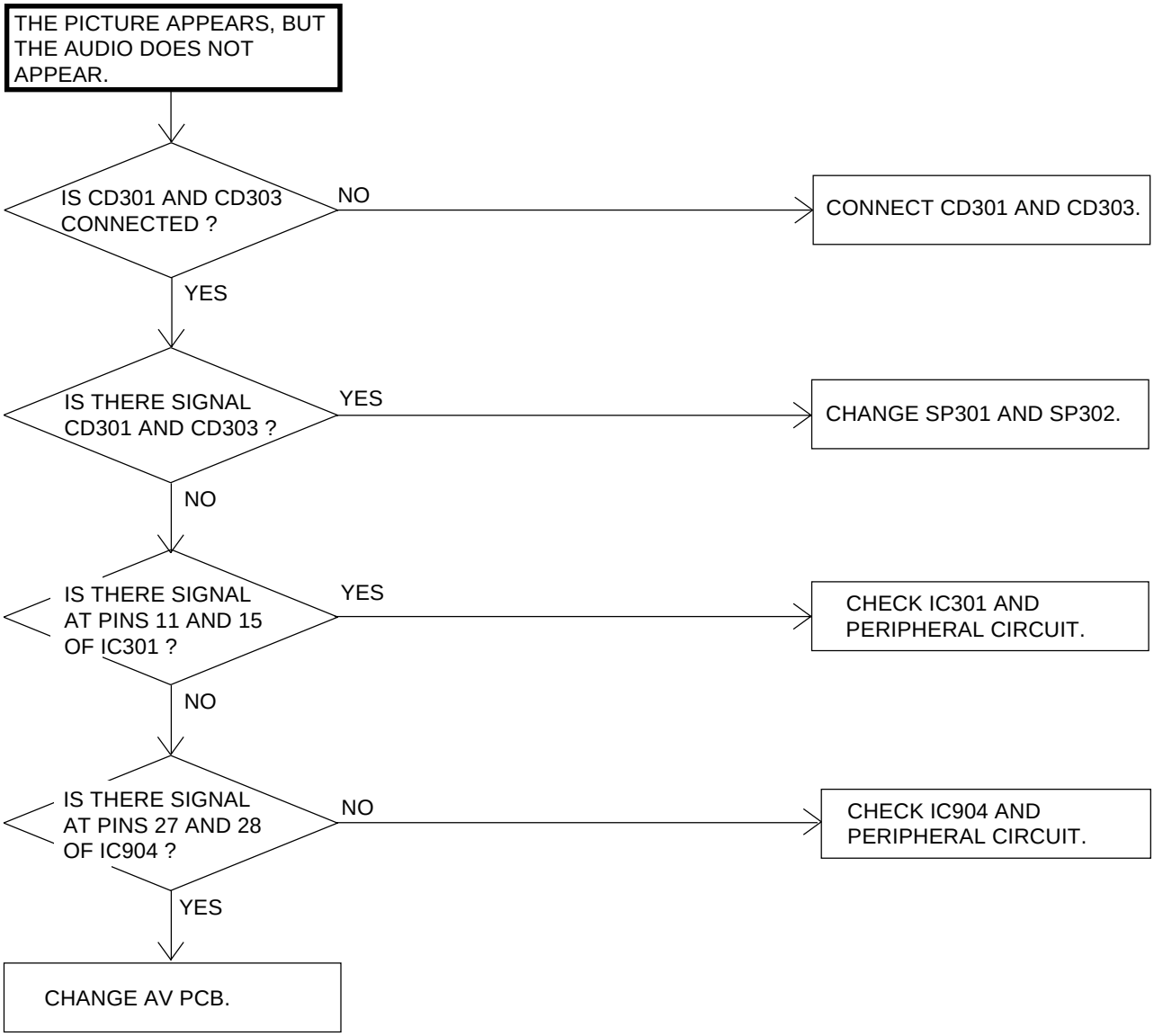
# TROUBLESHOOTING GUIDE



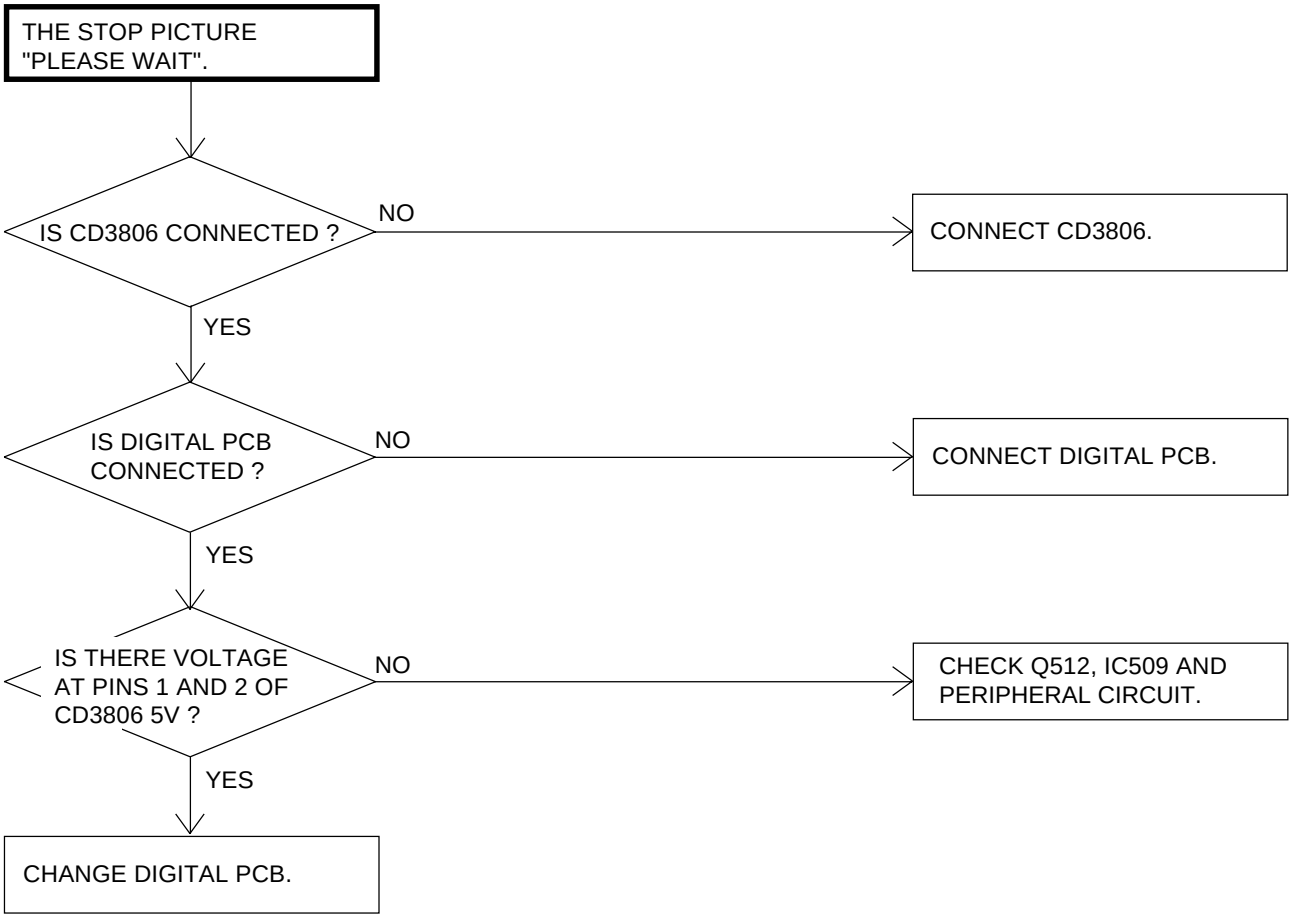
# TROUBLESHOOTING GUIDE


THE PICTURE DOES NOT APPEAR (2).
IS THERE SIGNAL AT IC4201 ?
NO
CHECK IC4201 AND PERIPHERAL CIRCUIT.
YES
IS CD4203 CONNECTED AND IS THERE SIGNAL ?
NO
CONNECT CD4203. CHECK IC4201 AND PERIPHERAL CIRCUIT.
YES
CHECK IC801 AND PERIPHERAL CIRCUIT.

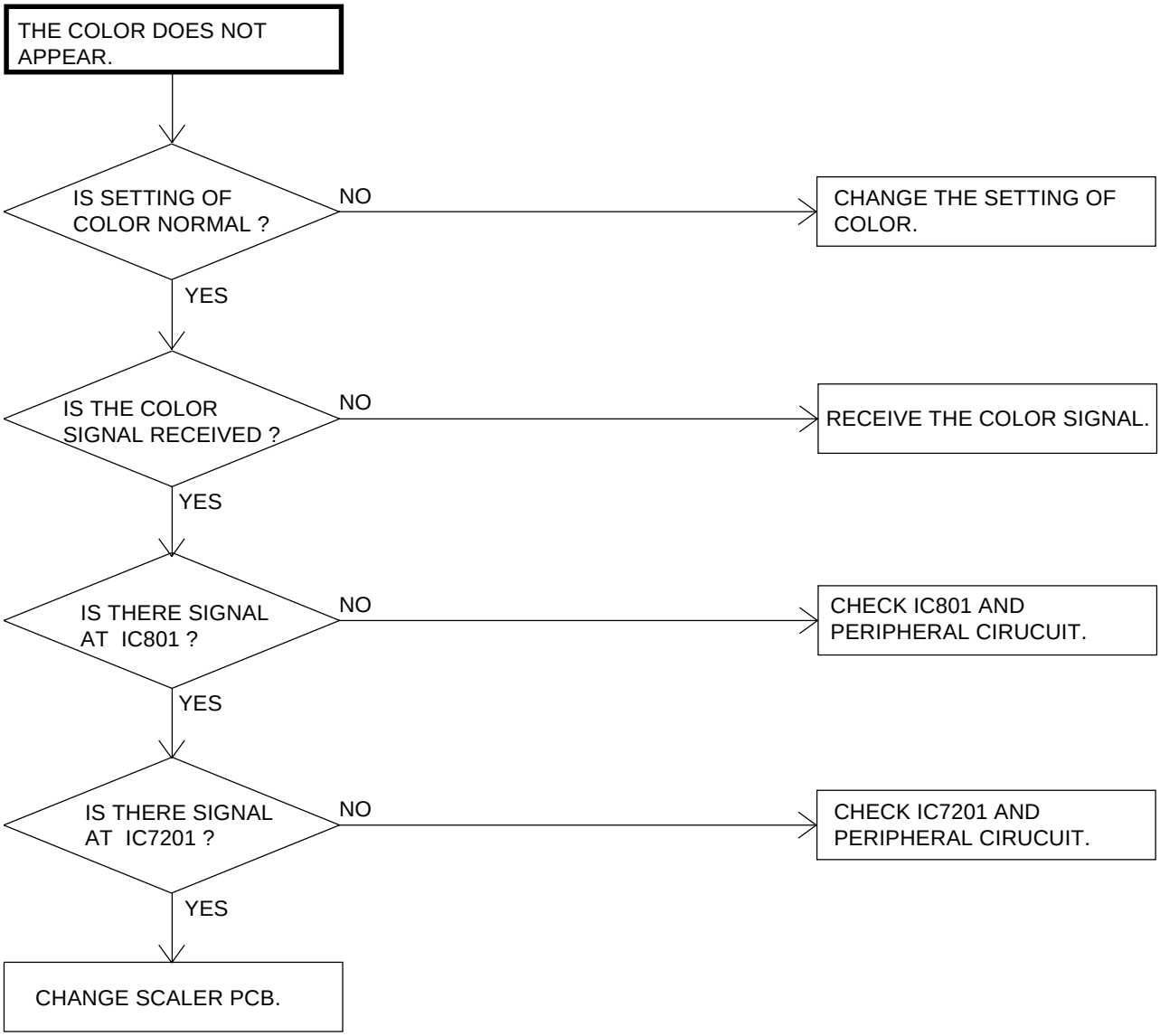
# TROUBLESHOOTING GUIDE


THE PICTURE APPEARS, BUT THE AUDIO DOES NOT APPEAR.
IS CD301 AND CD303 CONNECTED ?
NO
CONNECT CD301 AND CD303.
YES
IS THERE SIGNAL CD301 AND CD303 ?
YES
CHANGE SP301 AND SP302.
NO
IS THERE SIGNAL AT PINS 11 AND 15 OF IC301 ?
YES
CHECK IC301 AND PERIPHERAL CIRCUIT.
NO
IS THERE SIGNAL AT PINS 27 AND 28 OF IC904 ?
NO
CHECK IC904 AND PERIPHERAL CIRCUIT.
YES
CHANGE AV PCB.

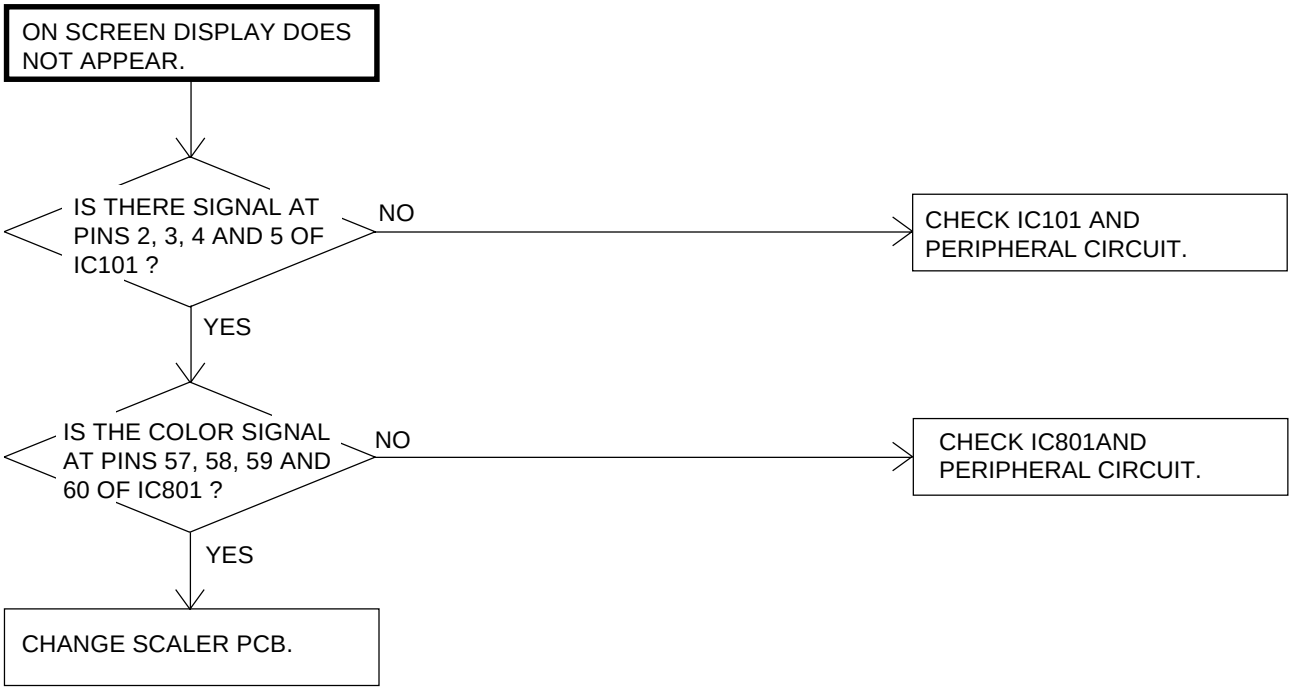
# TROUBLESHOOTING GUIDE



# TROUBLESHOOTING GUIDE

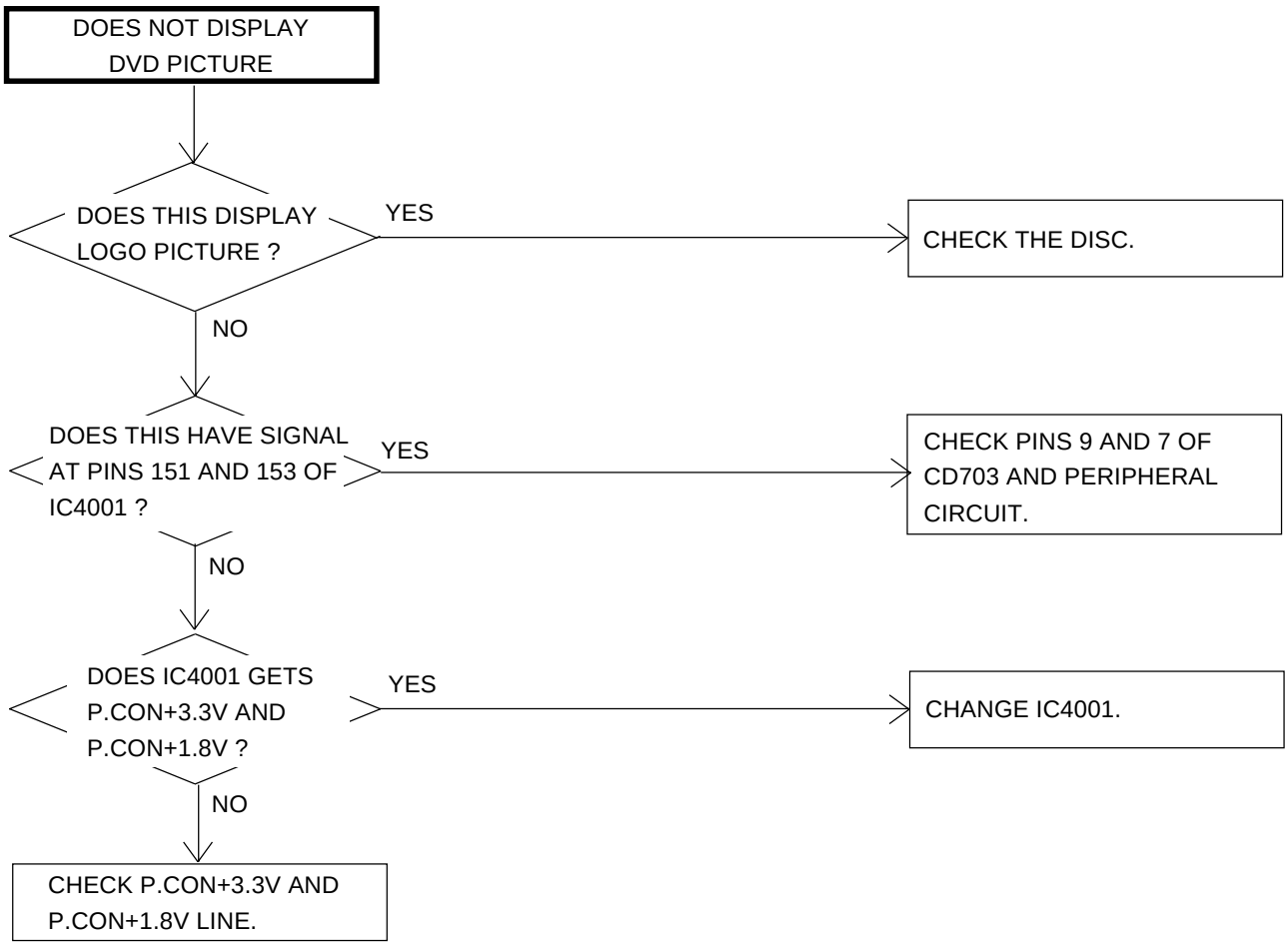


# TROUBLESHOOTING GUIDE

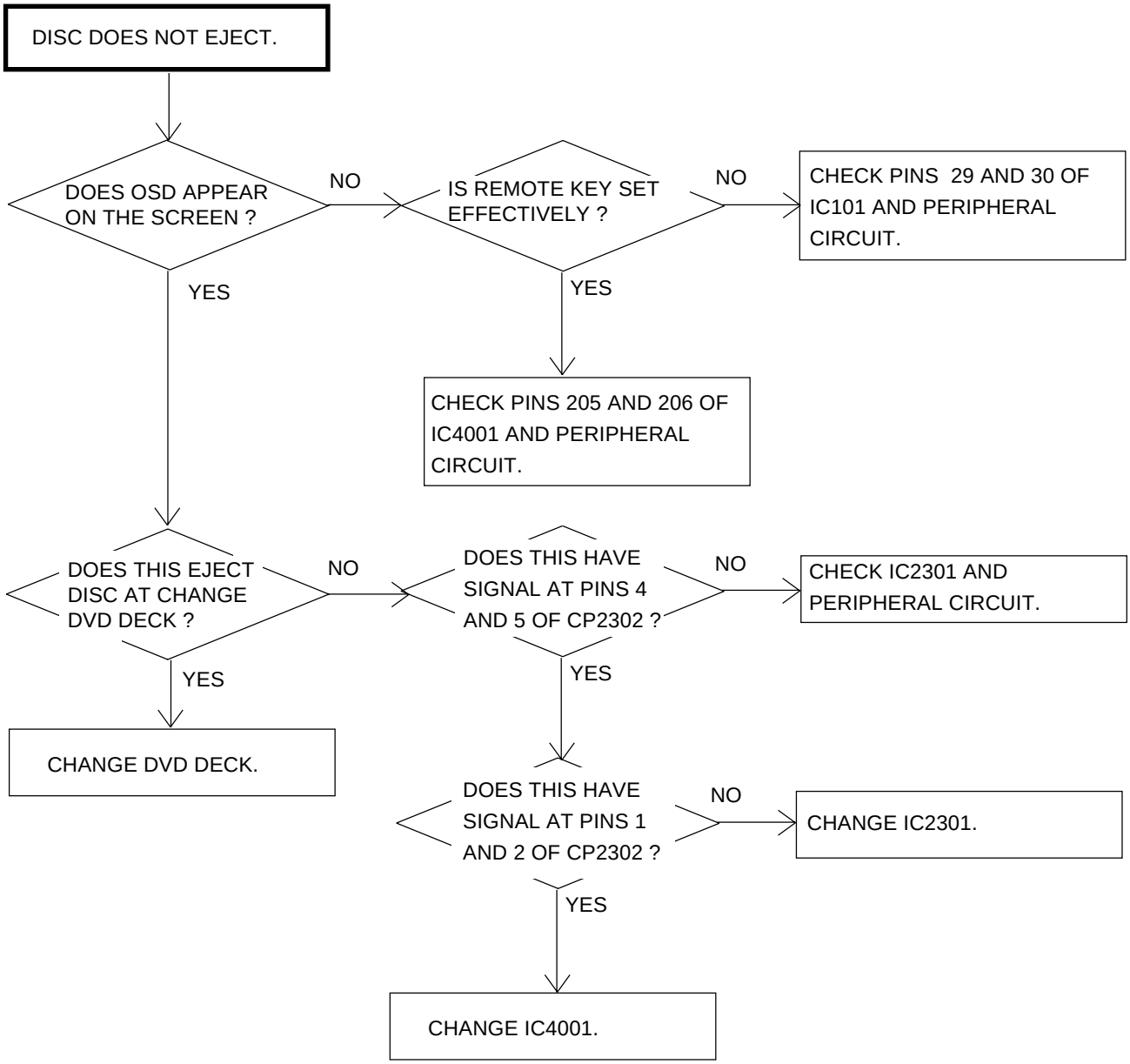

ON SCREEN DISPLAY DOES NOT APPEAR.
IS THERE SIGNAL AT PINS 2, 3, 4 AND 5 OF IC101 ?
NO
CHECK IC101 AND PERIPHERAL CIRCUIT.
YES
IS THE COLOR SIGNAL AT PINS 57, 58, 59 AND 60 OF IC801 ?
NO
CHECK IC801AND PERIPHERAL CIRCUIT.
YES
CHANGE SCALER PCB.

# TROUBLESHOOTING GUIDE

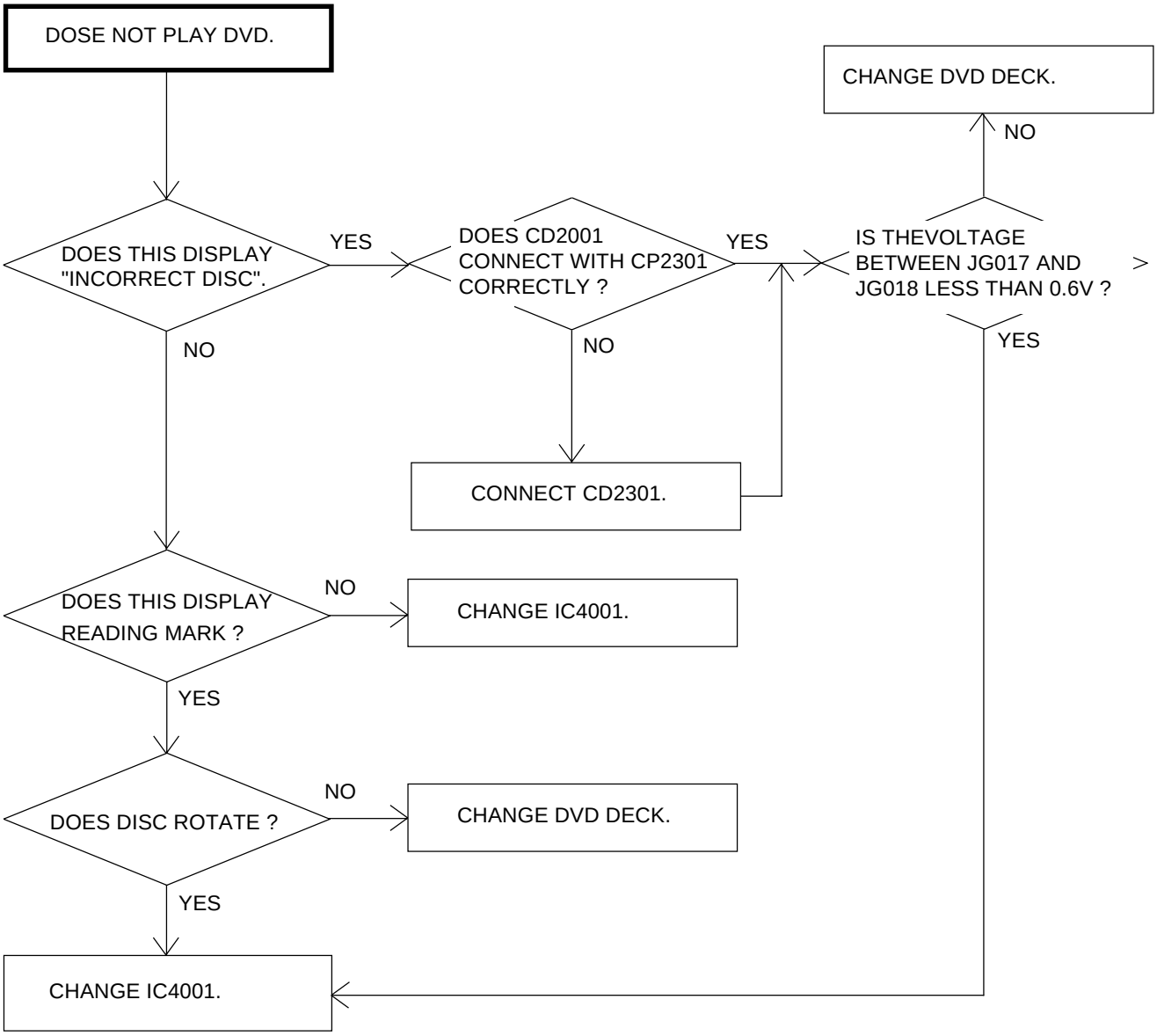
**(DVD SECTION)**


DOES NOT DISPLAY DVD PICTURE
DOES THIS DISPLAY LOGO PICTURE ?
YES
CHECK THE DISC.
NO
DOES THIS HAVE SIGNAL AT PINS 151 AND 153 OF IC4001 ?
YES
CHECK PINS 9 AND 7 OF CD703 AND PERIPHERAL CIRCUIT.
NO
DOES IC4001 GETS P.CON+3.3V AND P.CON+1.8V ?
YES
CHANGE IC4001.
NO
CHECK P.CON+3.3V AND P.CON+1.8V LINE.

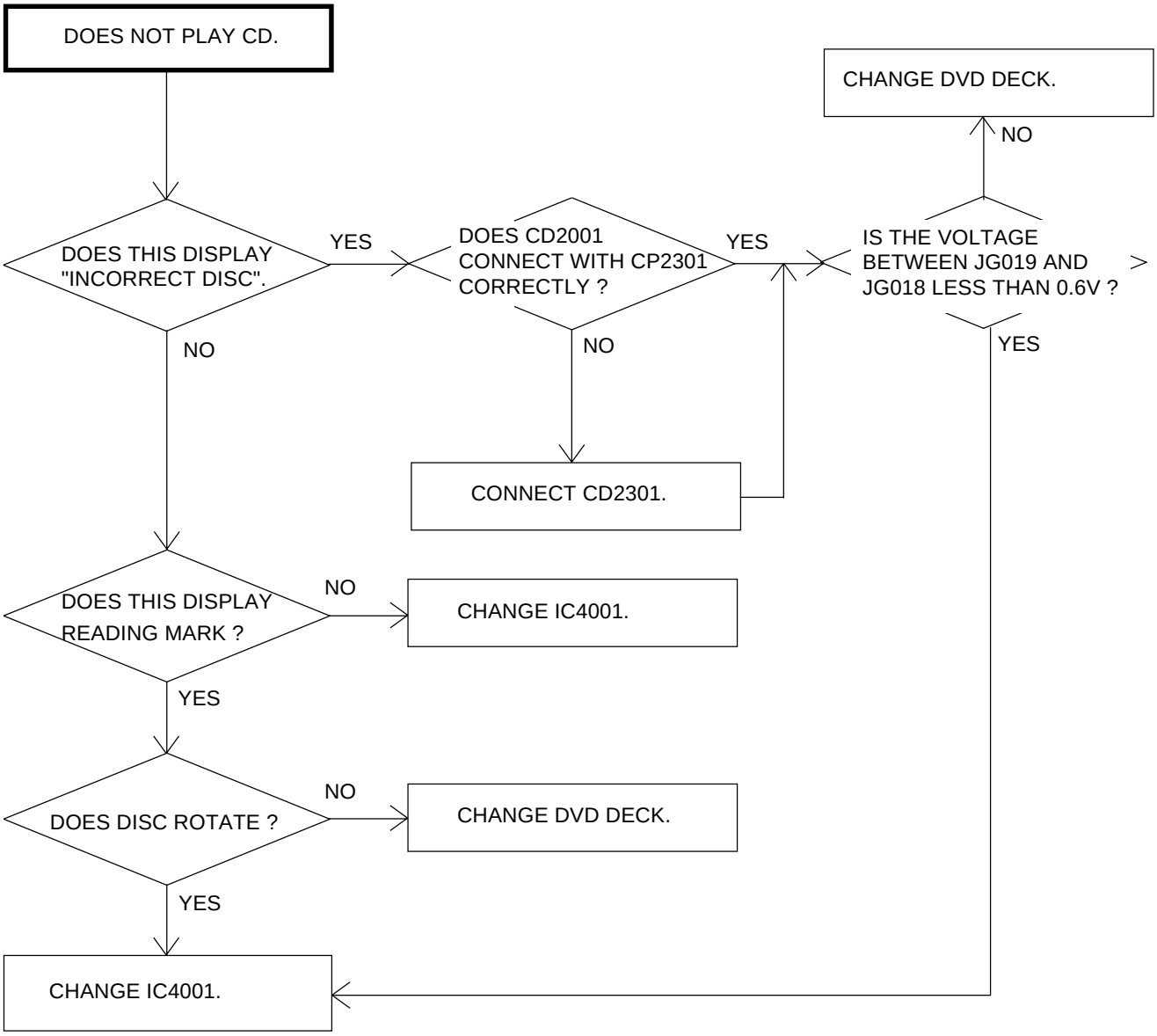
# TROUBLESHOOTING GUIDE


DISC DOES NOT EJECT.
DOES OSD APPEAR ON THE SCREEN ?
NO
IS REMOTE KEY SET EFFECTIVELY ?
NO
CHECK PINS 29 AND 30 OF IC101 AND PERIPHERAL CIRCUIT.
YES
YES
CHECK PINS 205 AND 206 OF IC4001 AND PERIPHERAL CIRCUIT.
DOES THIS EJECT DISC AT CHANGE DVD DECK ?
NO
DOES THIS HAVE SIGNAL AT PINS 4 AND 5 OF CP2302 ?
NO
CHECK IC2301 AND PERIPHERAL CIRCUIT.
YES
YES
CHANGE DVD DECK.
DOES THIS HAVE SIGNAL AT PINS 1 AND 2 OF CP2302 ?
NO
CHANGE IC2301.
YES
CHANGE IC4001.

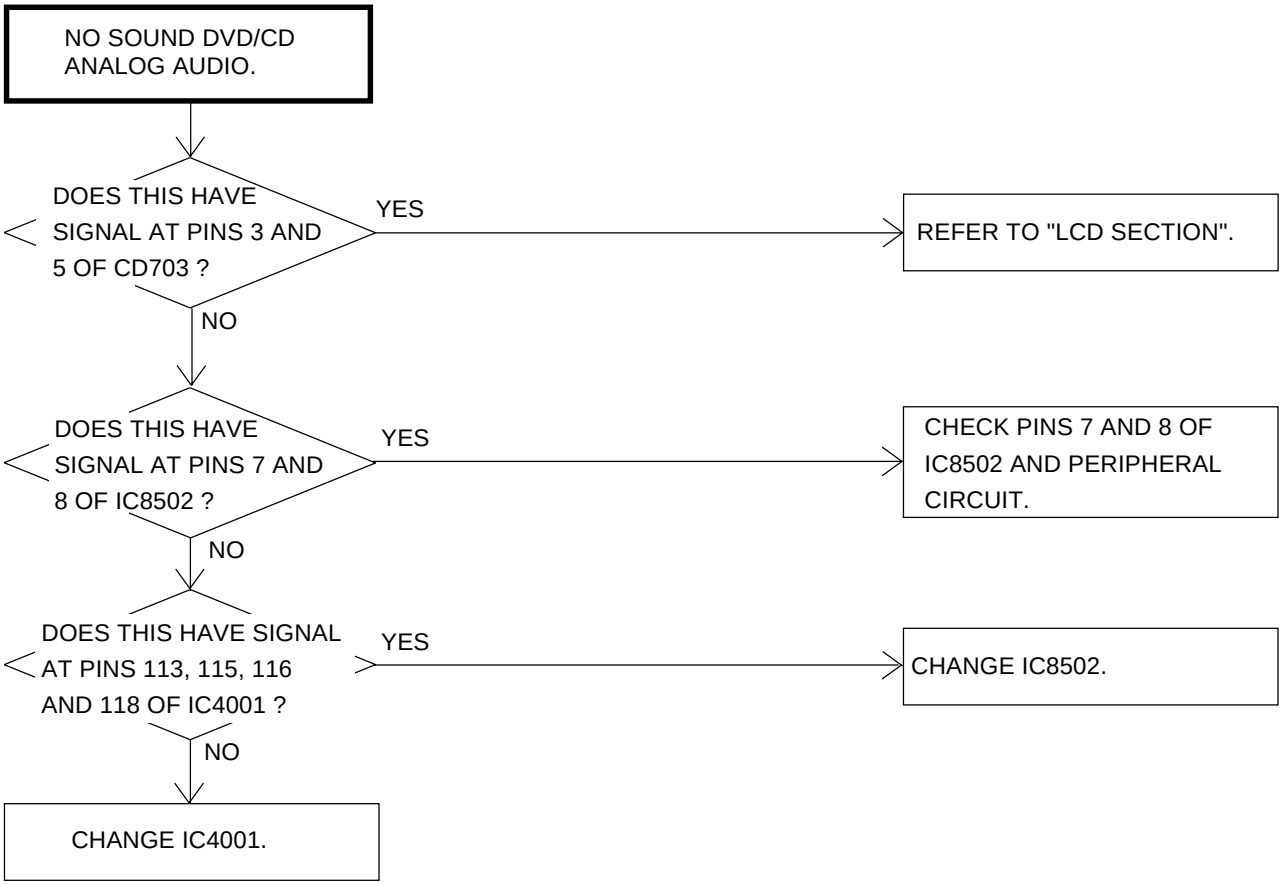
# TROUBLESHOOTING GUIDE

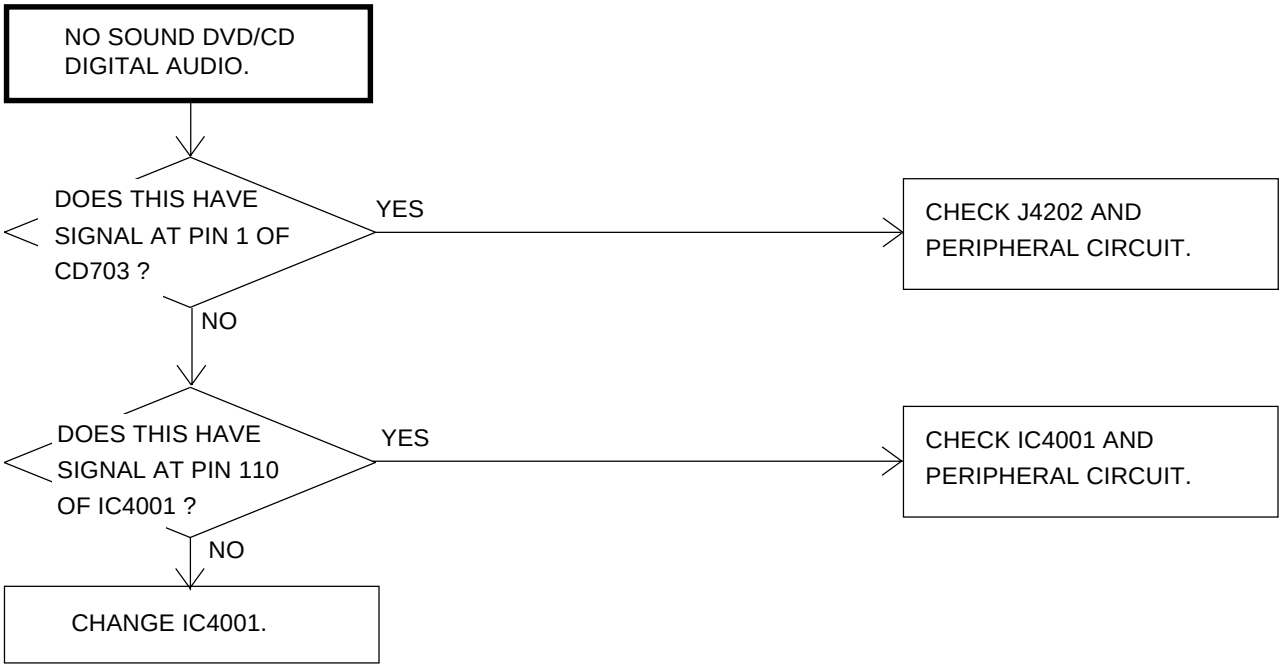


# TROUBLESHOOTING GUIDE

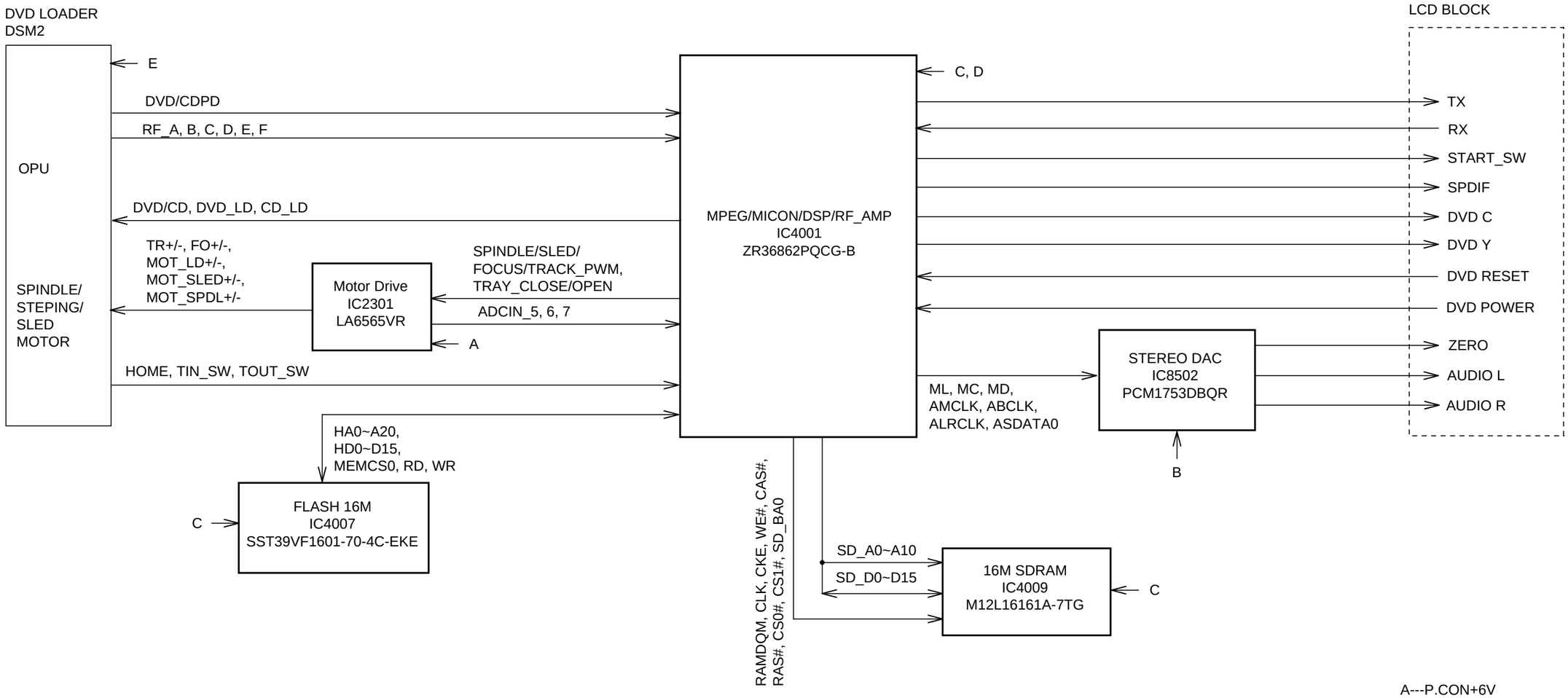


# TROUBLESHOOTING GUIDE


NO SOUND DVD/CD ANALOG AUDIO.
DOES THIS HAVE SIGNAL AT PINS 3 AND 5 OF CD703 ?
YES
REFER TO "LCD SECTION".
NO
DOES THIS HAVE SIGNAL AT PINS 7 AND 8 OF IC8502 ?
YES
CHECK PINS 7 AND 8 OF IC8502 AND PERIPHERAL CIRCUIT.
NO
DOES THIS HAVE SIGNAL AT PINS 113, 115, 116 AND 118 OF IC4001 ?
YES
CHANGE IC8502.
NO
CHANGE IC4001.

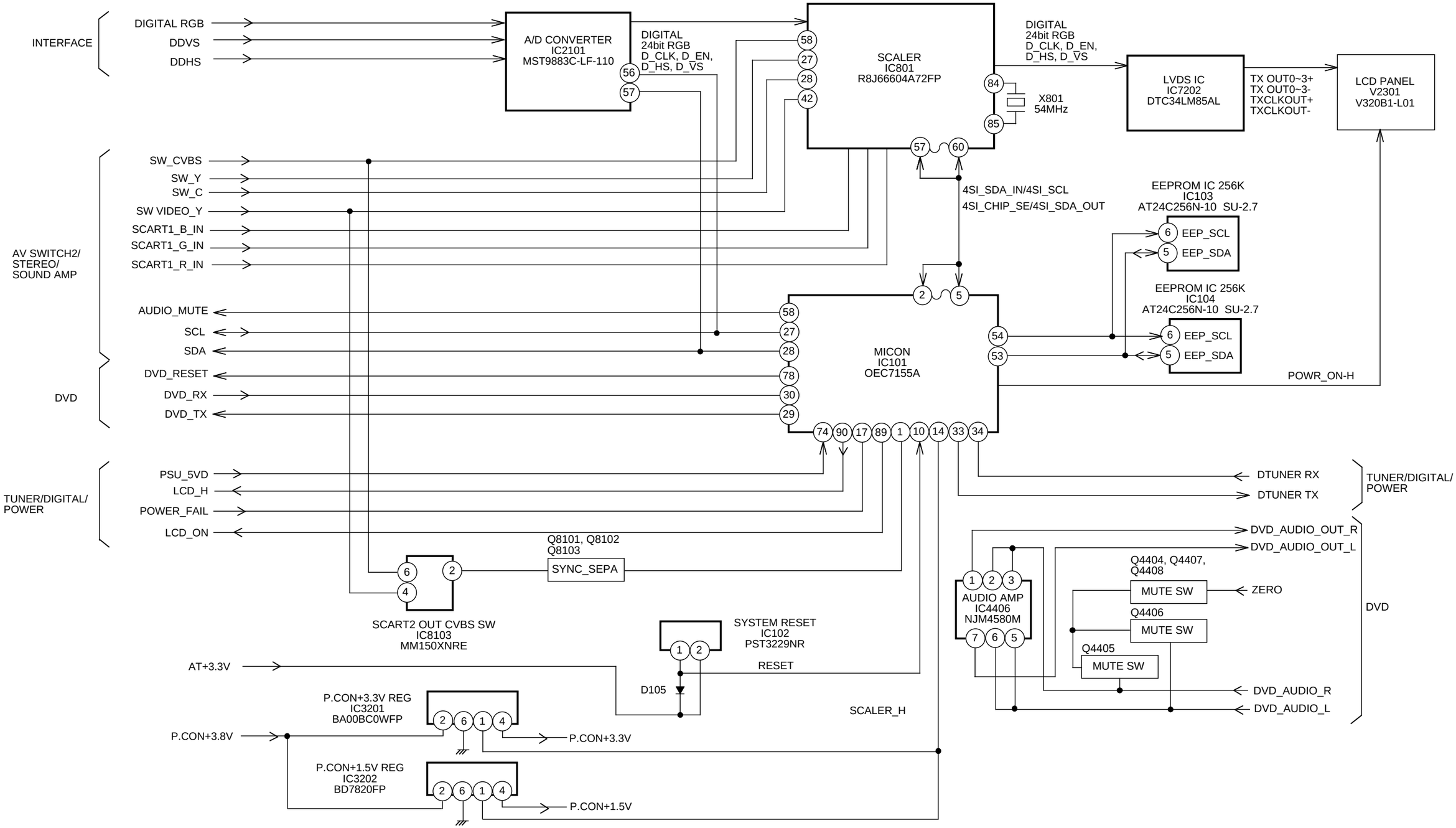

NO SOUND DVD/CD DIGITAL AUDIO.
DOES THIS HAVE SIGNAL AT PIN 1 OF CD703 ?
YES
CHECK J4202 AND PERIPHERAL CIRCUIT.
NO
DOES THIS HAVE SIGNAL AT PIN 110 OF IC4001 ?
YES
CHECK IC4001 AND PERIPHERAL CIRCUIT.
NO
CHANGE IC4001.

# DVD BLOCK DIAGRAM

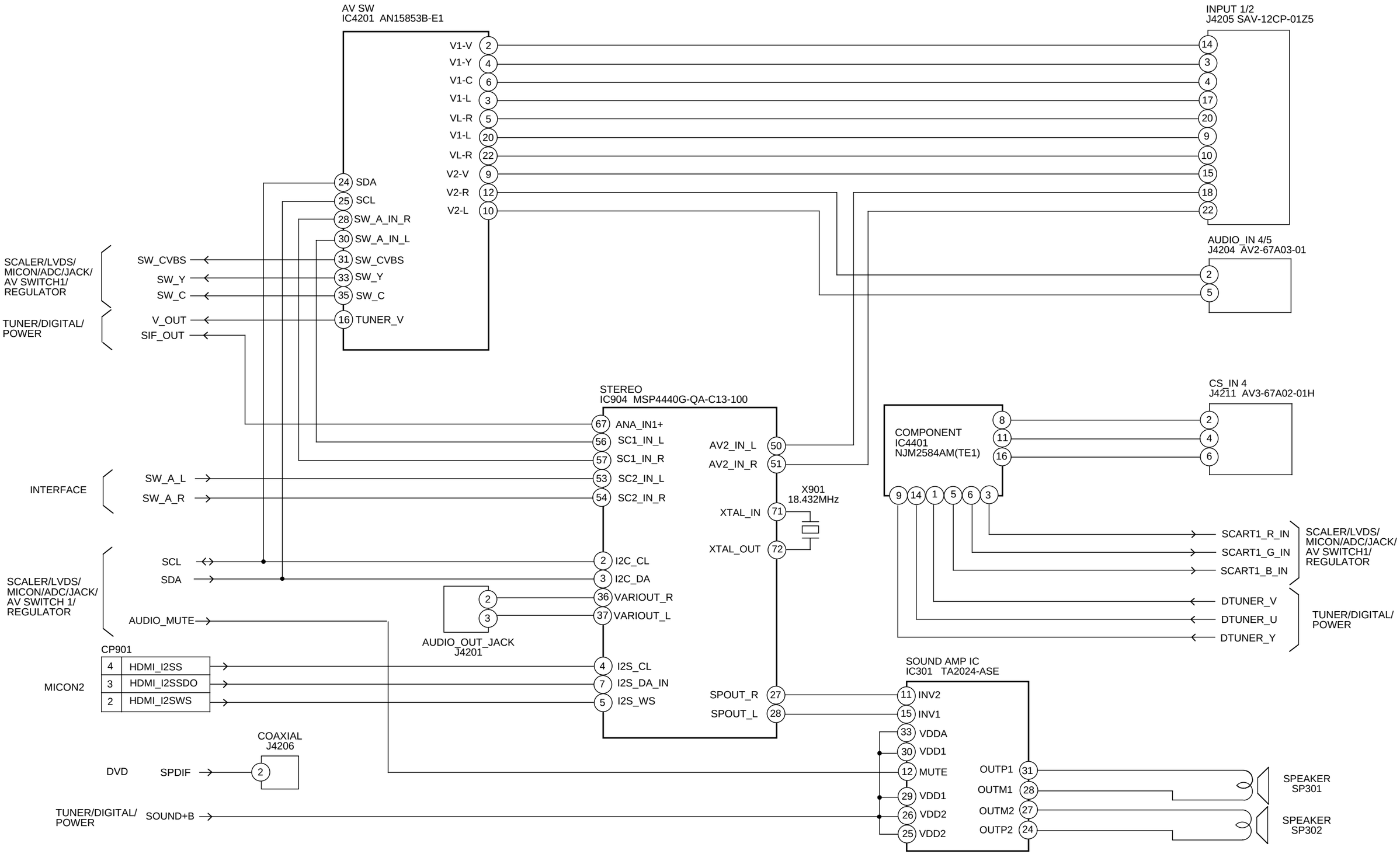



A---P.CON+6V
B---P.CON+5V
C---P.CON+3.3V
D---P.CON+1.8V
E---P.CON+A5V

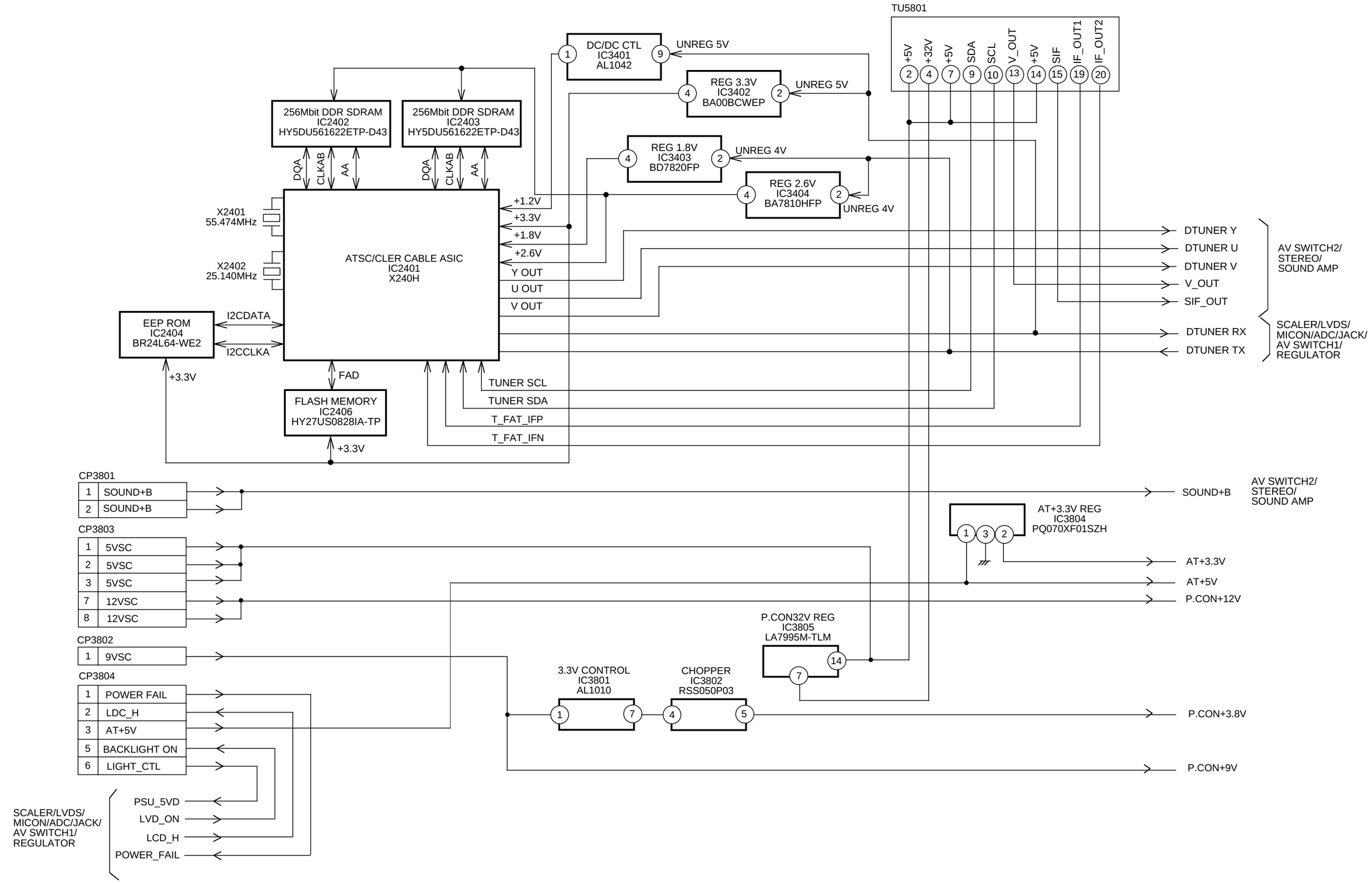
# SCALER/LVDS/MICON/ADC/JACK/AV SWITCH1/REGULATOR BLOCK DIAGRAM



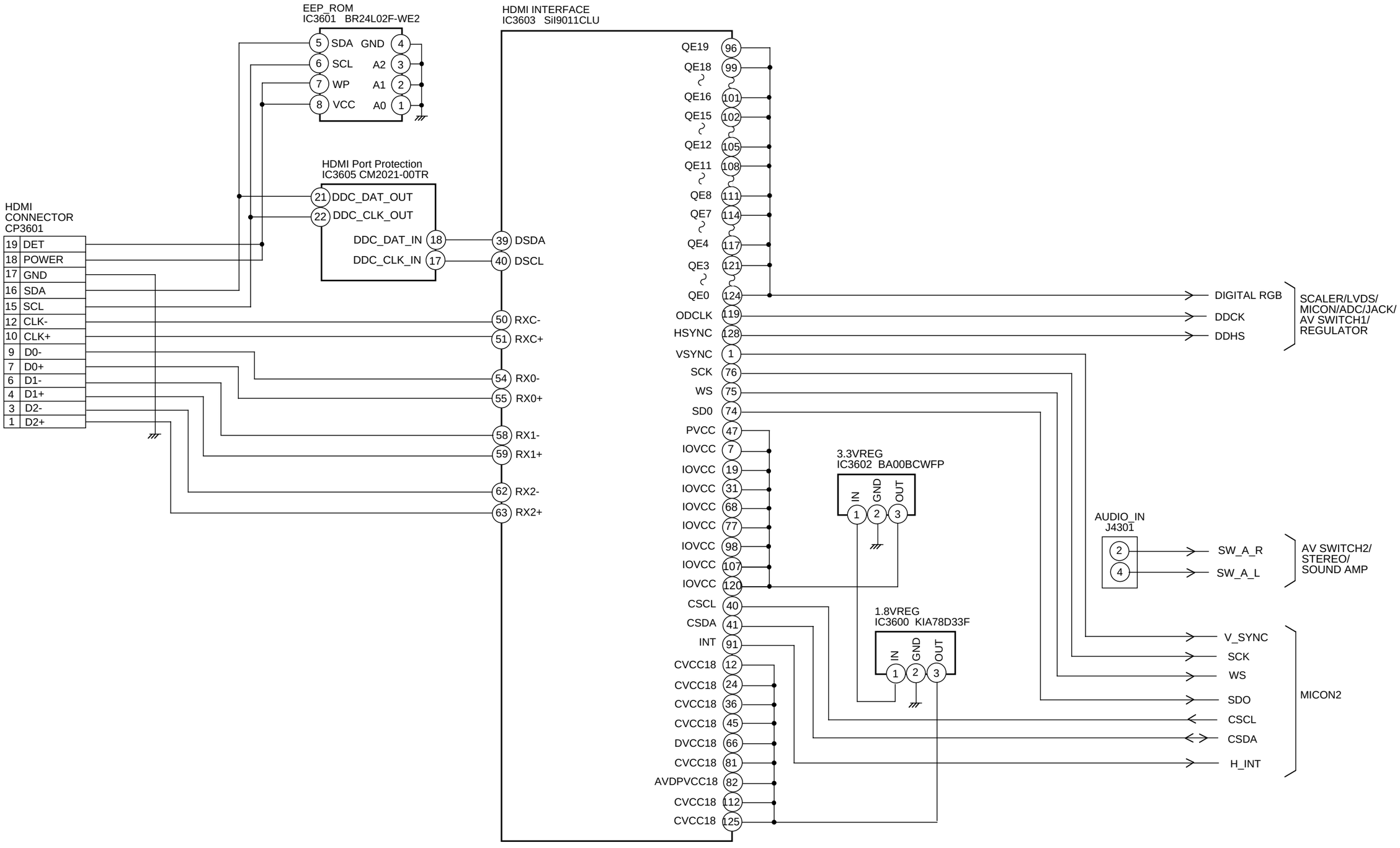
# AV SWITCH2/STEREO/SOUND AMP BLOCK DIAGRAM



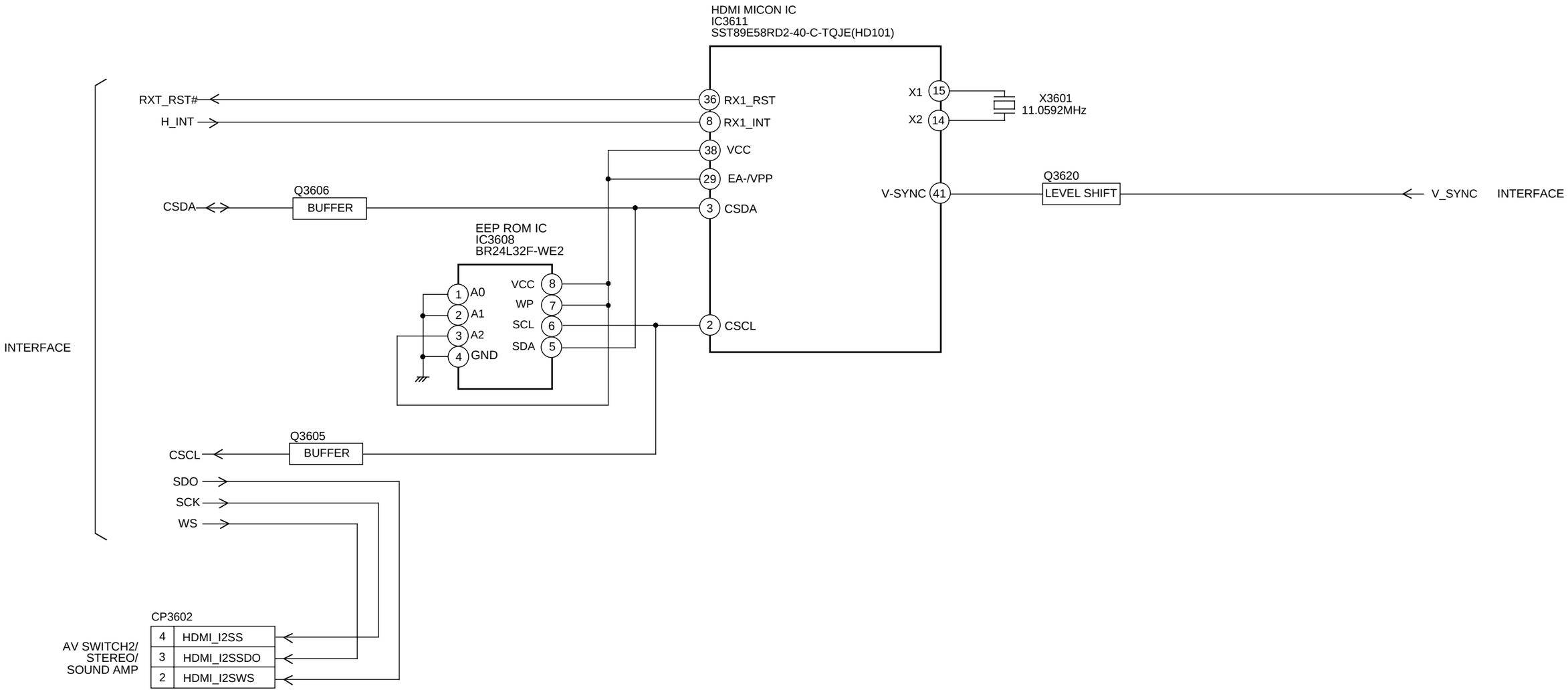
# TUNER/DIGITAL/POWER BLOCK DIAGRAM



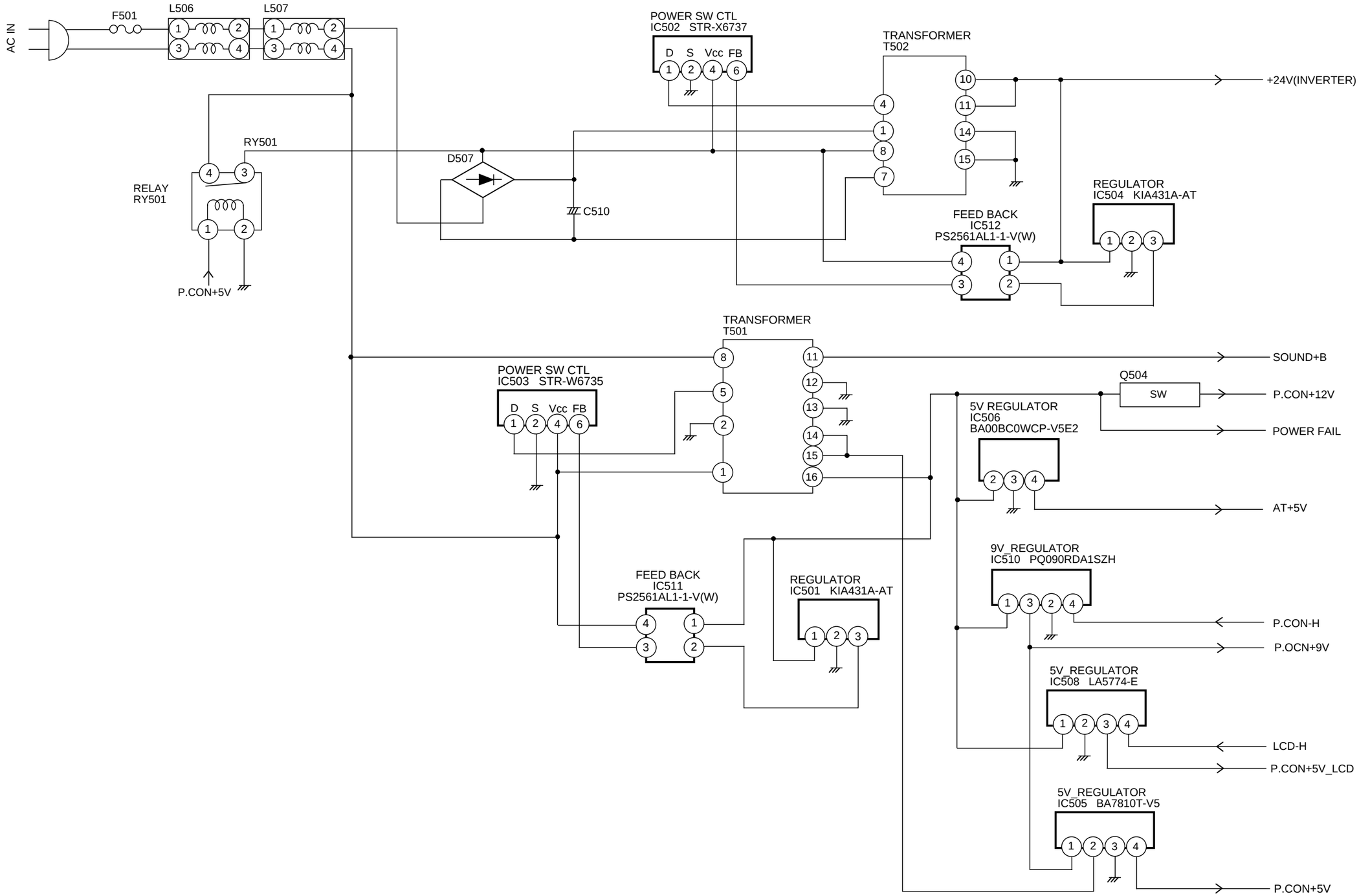
# INTERFACE BLOCK DIAGRAM



# MICON2 BLOCK DIAGRAM

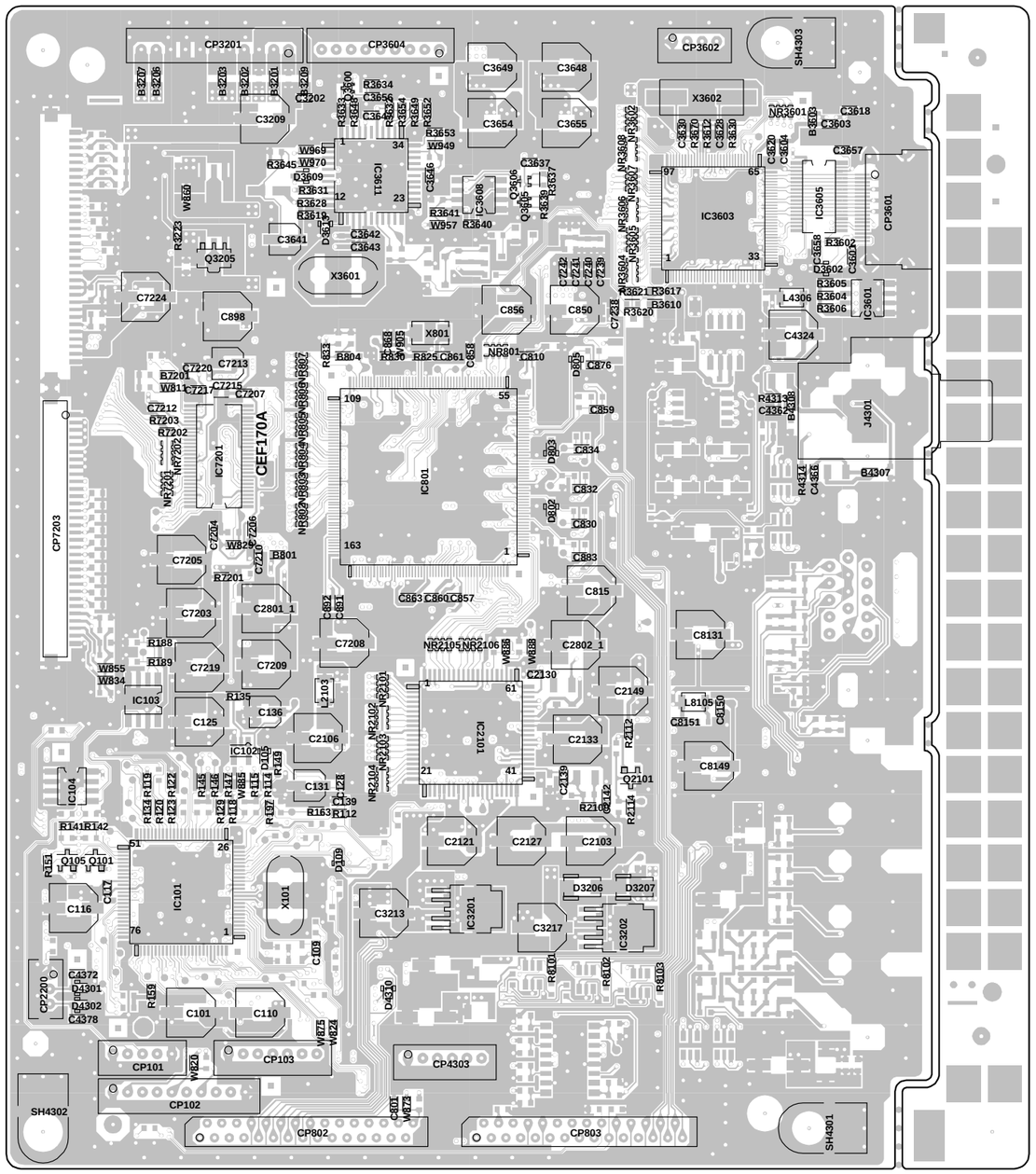


# POWER BLOCK DIAGRAM



# PRINTED CIRCUIT BOARDS

## SCALER (TOP SIDE)


CP3201
CP3604
CP3602
SH4303
X3602
C3649
C3648
C3654
C3655
C3209
C3202
C3618
C3603
C3657
C3637
C3641
C3642
C3643
X3601
Q3205
C7224
C898
C856
C850
C7238
R3620
R3617
B3610
L4306
C4324
C3605
C3604
C3601
IC3605
IC3603
CP3601
X801
B804
C861
C858
NR801
C810
C876
C7213
C7220
C7215
C7207
B7201
W811
C721
C7212
B7203
B7202
CEF170A
IC7201
NR7201
NR7202
NR7203
NR7204
NR7205
NR7206
NR7207
NR7208
NR7209
NR7210
NR7211
NR7212
NR7213
NR7214
NR7215
NR7216
NR7217
NR7218
NR7219
NR7220
NR7221
NR7222
NR7223
NR7224
NR7225
NR7226
NR7227
NR7228
NR7229
NR7230
NR7231
NR7232
NR7233
NR7234
NR7235
NR7236
NR7237
NR7238
NR7239
NR7240
NR7241
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NR7243
NR7244
NR7245
NR7246
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NR7251
NR7252
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NR7254
NR7255
NR7256
NR7257
NR7258
NR7259
NR7260
NR7261
NR7262
NR7263
NR7264
NR7265
NR7266
NR7267
NR7268
NR7269
NR7270
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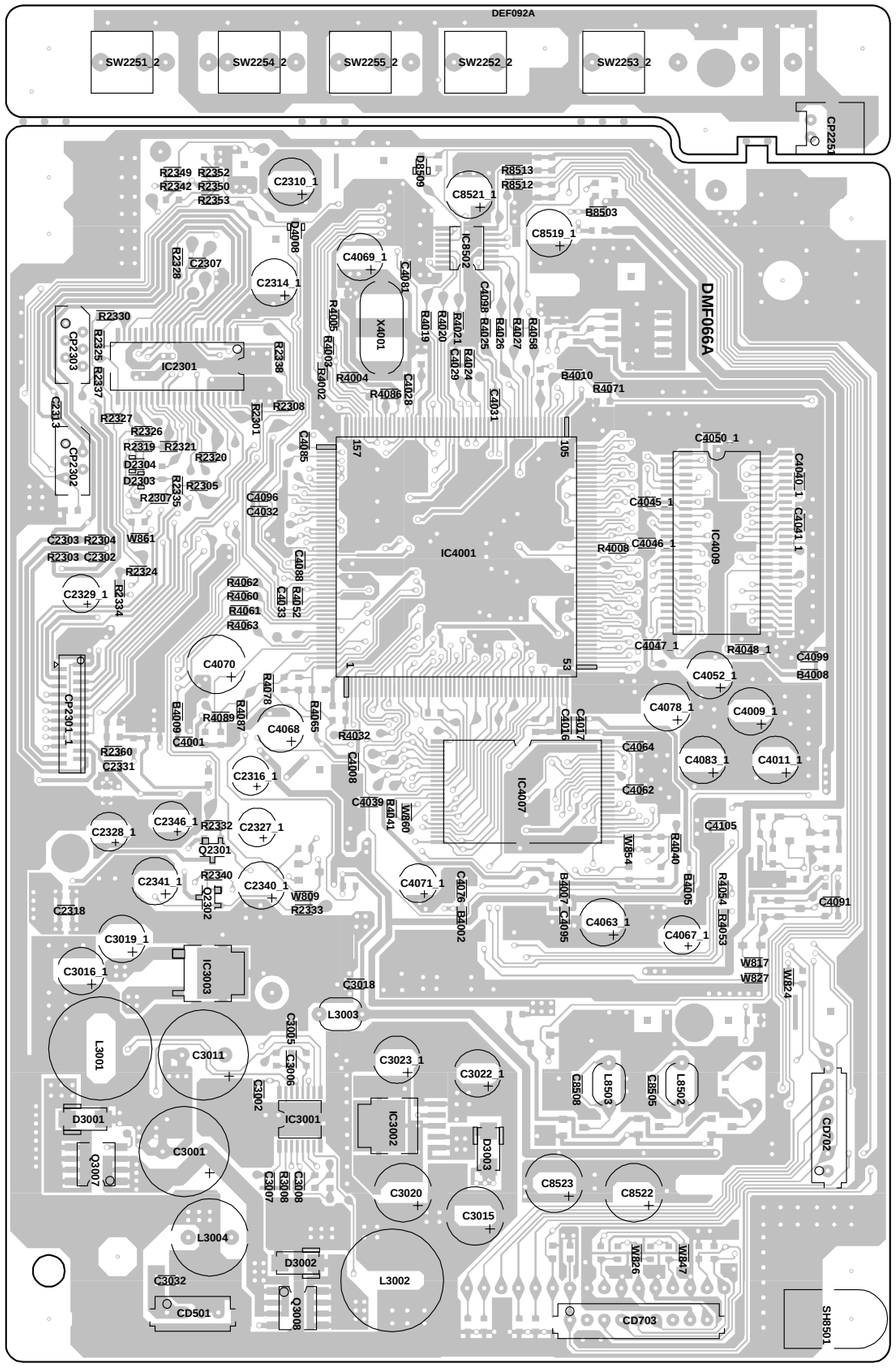
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R2362
R2363
R2364
R2365
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C4002
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C4005
C4006
C4007
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C4009
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C4074
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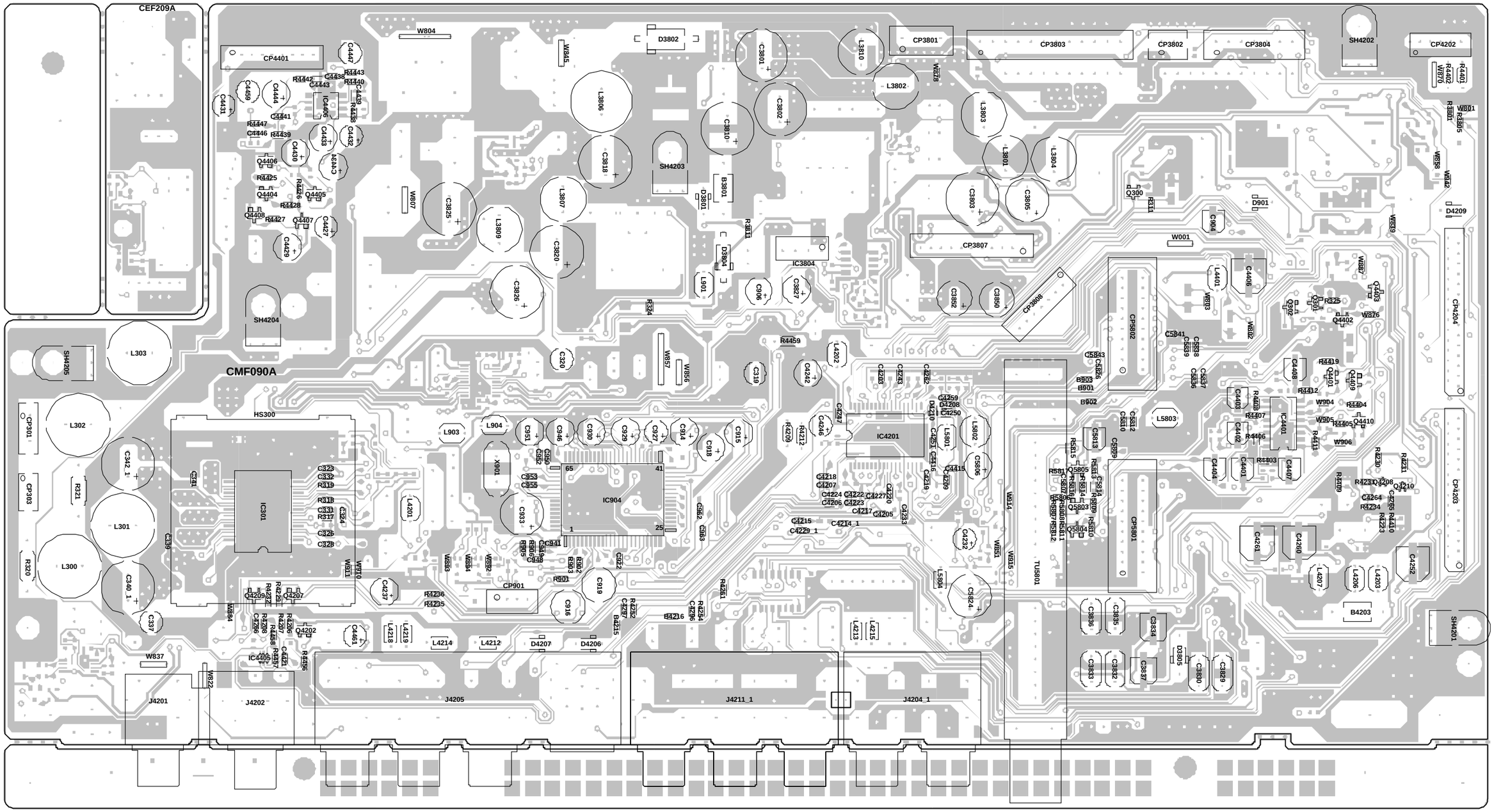
C4081

# PRINTED CIRCUIT BOARDS

## AV/SIDE JACK (TOP SIDE)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W845
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L3810
CP3801
CP3803
CP3802
CP3804
SH4202
CP4202
W876
R4401
R4402
W801
R3801
R3805
W838
W842
D4209
W839
W887
Q4403
R325
Q302
Q3801
Q4402
W876
CP4204
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L3804
L3802
W828
C3803
C3805
Q300
R331
D901
C904
W001
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IC3804
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C3850
CP3808
CP5802
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W803
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W905
W906
R4404
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Q4410
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R4408
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Q4210
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R4234
R4223
C4266
R4410
C4426
C4260
L4207
L4206
L4203
C4252
CP4203
B4203
SH4201
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D3805
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C3831
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C3829
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C3827
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C3802
C3801
L3806
C3818
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C906
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C906
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C4203
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C4215
L4213
C4296
R4254
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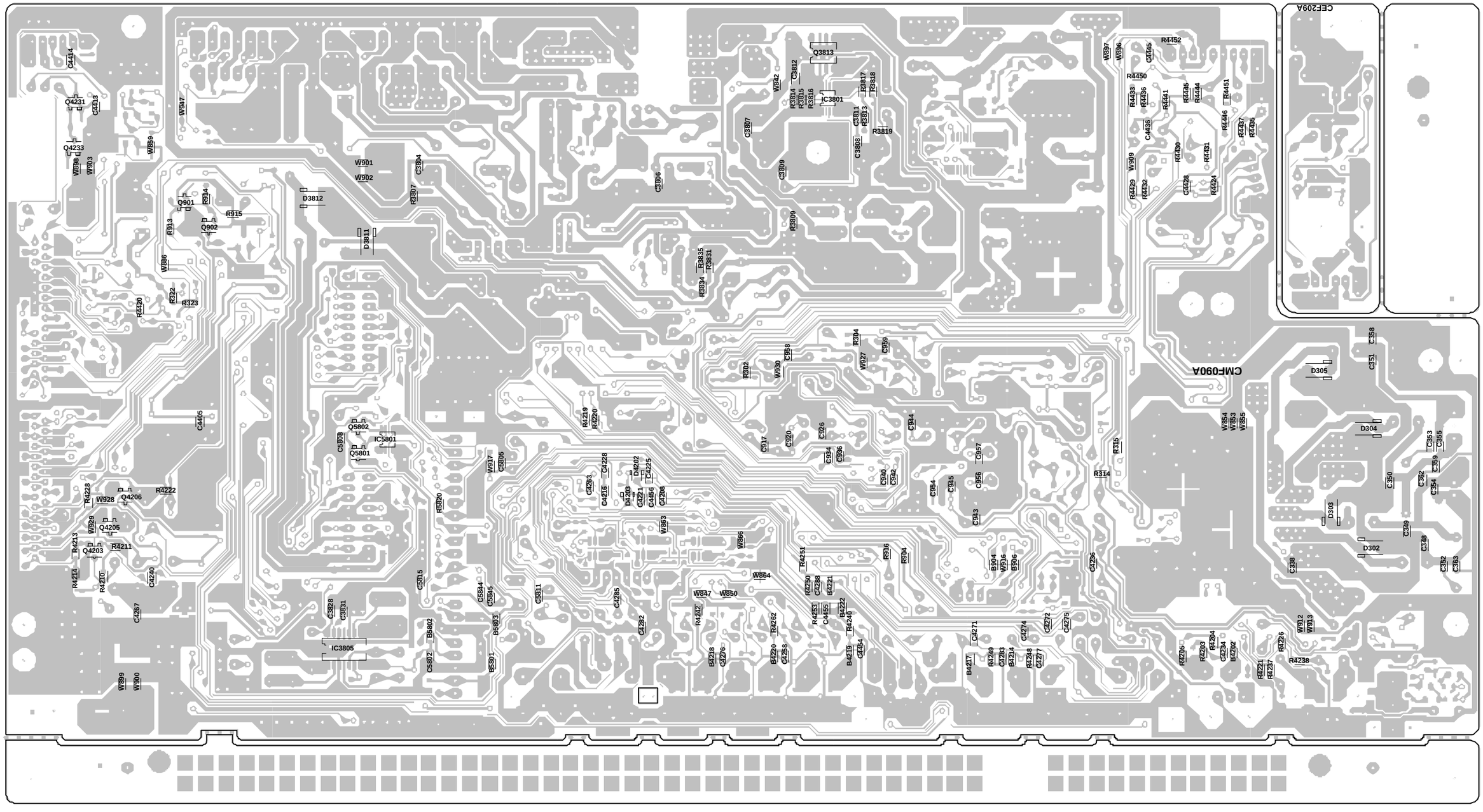
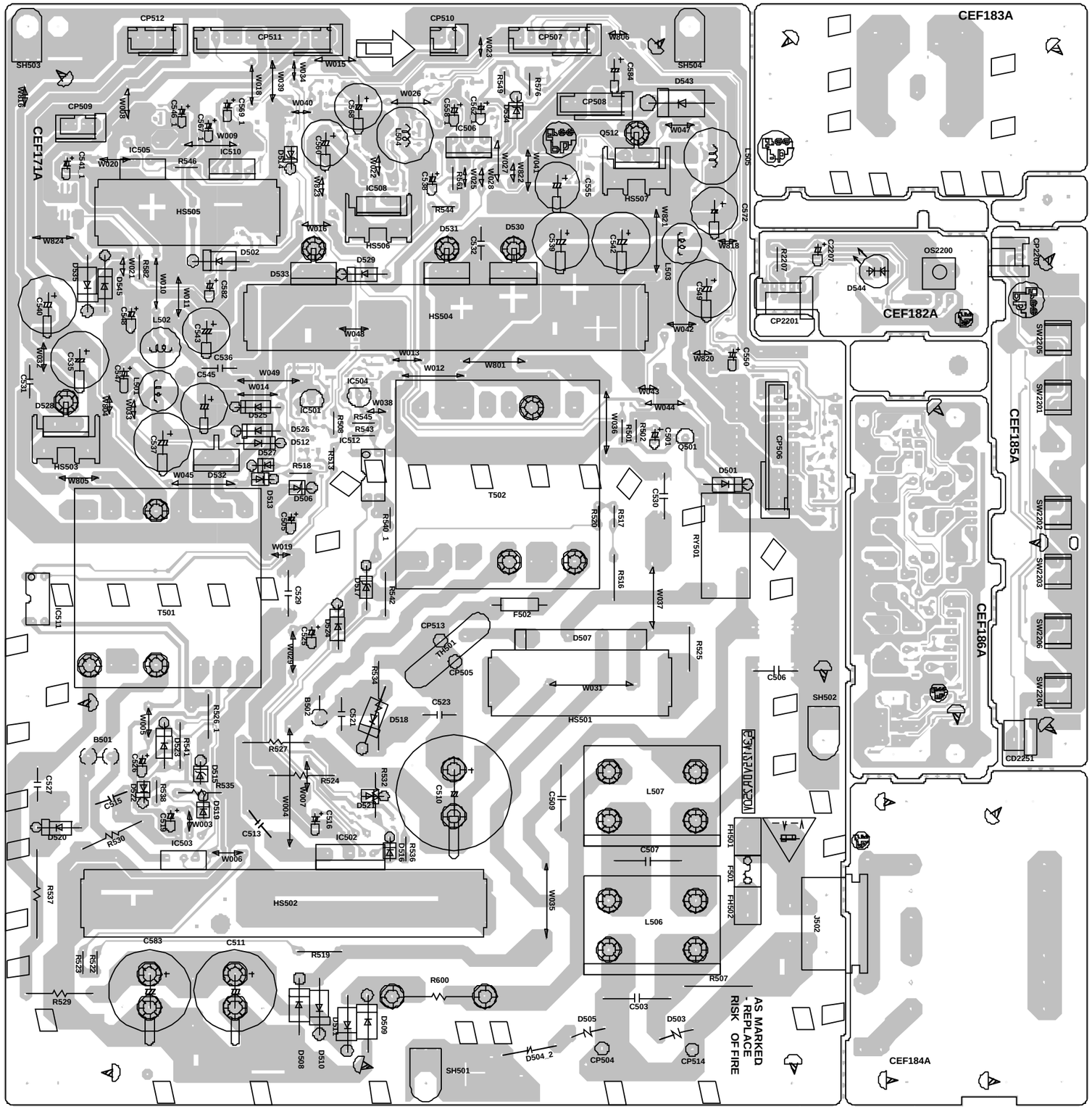
C4263

# PRINTED CIRCUIT BOARDS

## AV/SIDE JACK (BOTTOM SIDE)



# PRINTED CIRCUIT BOARDS
# POWER/OPERATION1/REMOCON (INSERTED PARTS)
## SOLDER SIDE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CEF182A
CEF185A
CEF186A
CEF184A
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CP507
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D528
D526
D512
D527
D532
D501
D507
D518
D521
D505
D503
D504_2
CP513
TH501
CP505
CP504
CP514
F502
L502
L503
L504
L505
L507
L506
CP2201
CP2202
R2207
C2207
OS2200
SW2205
SW2201
SW2202
SW2203
SW2206
SW2204
CD2251
CP506
RY501
J502
FH501
FH502
F501
B501
B502
W824
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W806
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W043
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W048
W049
W047
W040
W039
W034
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W010
W011
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W032
W033
W030
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W002
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C567_1
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C541_1
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D583
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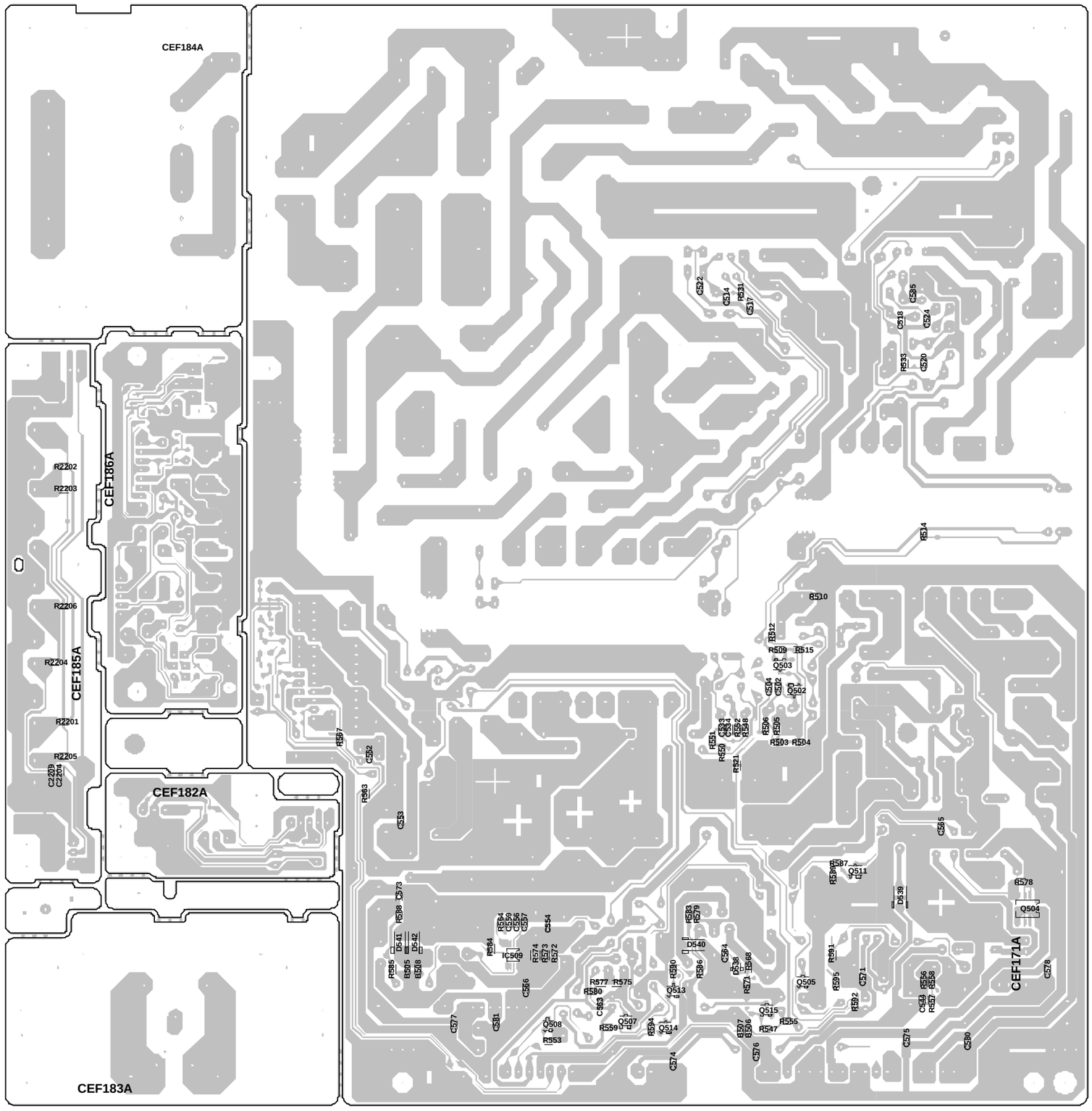
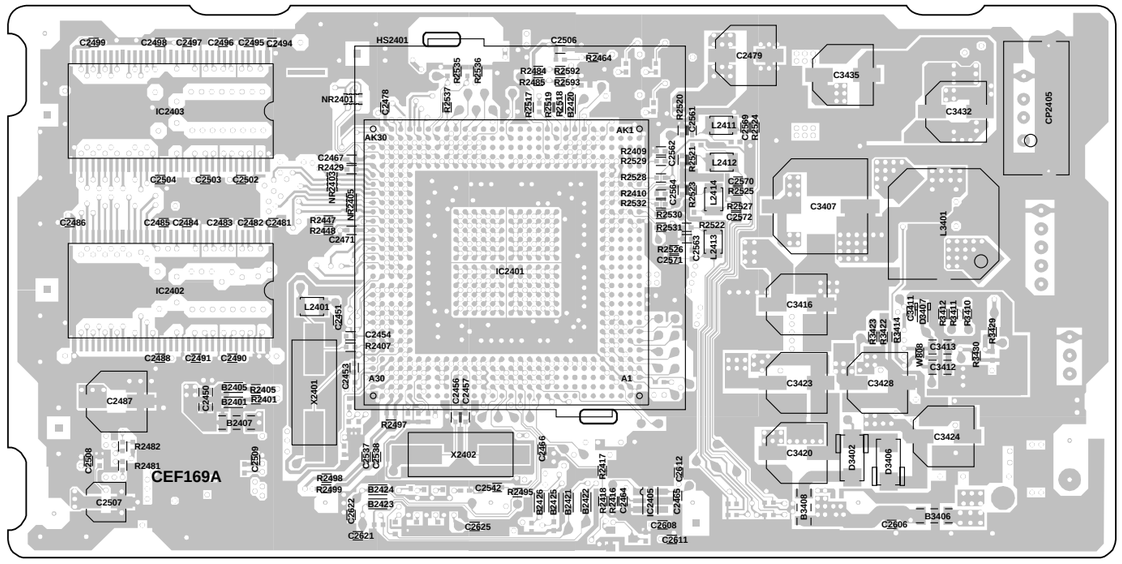
D586
D587
D588
D589

# PRINTED CIRCUIT BOARDS
# POWER/OPERATION1 (CHIP MOUNTED PARTS)
## SOLDER SIDE

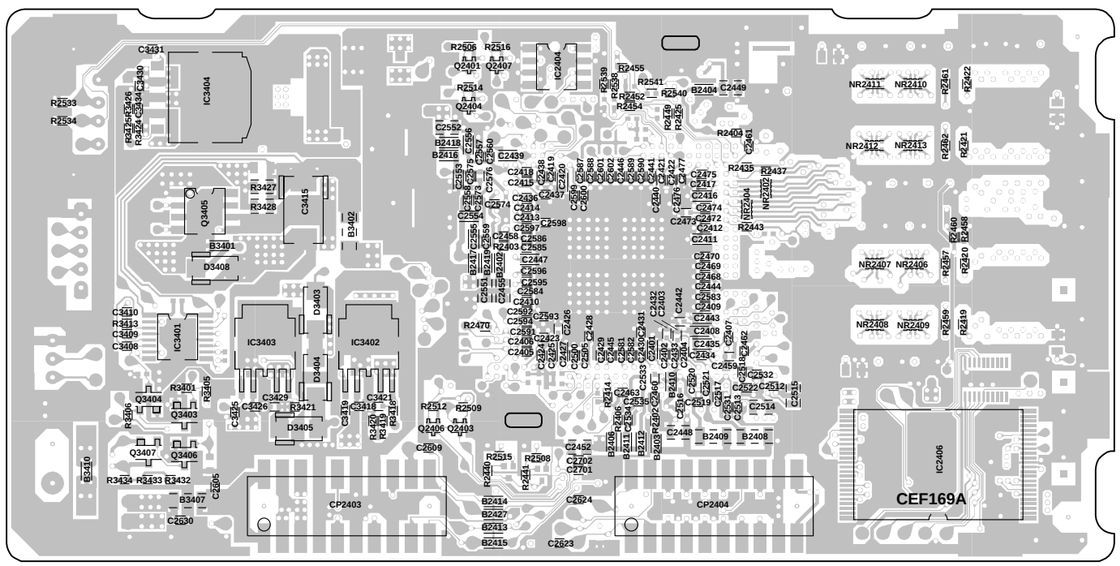


# PRINTED CIRCUIT BOARDS

## DIGITAL (TOP SIDE)




## DIGITAL (BOTTOM SIDE)



# MPEG/MICON/DSP/RF_AMP SCHEMATIC DIAGRAM

## (DVD PCB)

MPEG/MICON/DSP/RF_AMP IC
IC4001
ZR36862PQCG-B

FROM/TO MEMORY

FROM/TO AUDIO/VIDEO

FROM/TO MOTOR DRIVER

FROM REGULATOR2

DIGITAL AUDIO SIGNAL(PB)

CAUTION: DIGITAL TRANSISTOR

**CAUTION** SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

**ATTENTION** LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

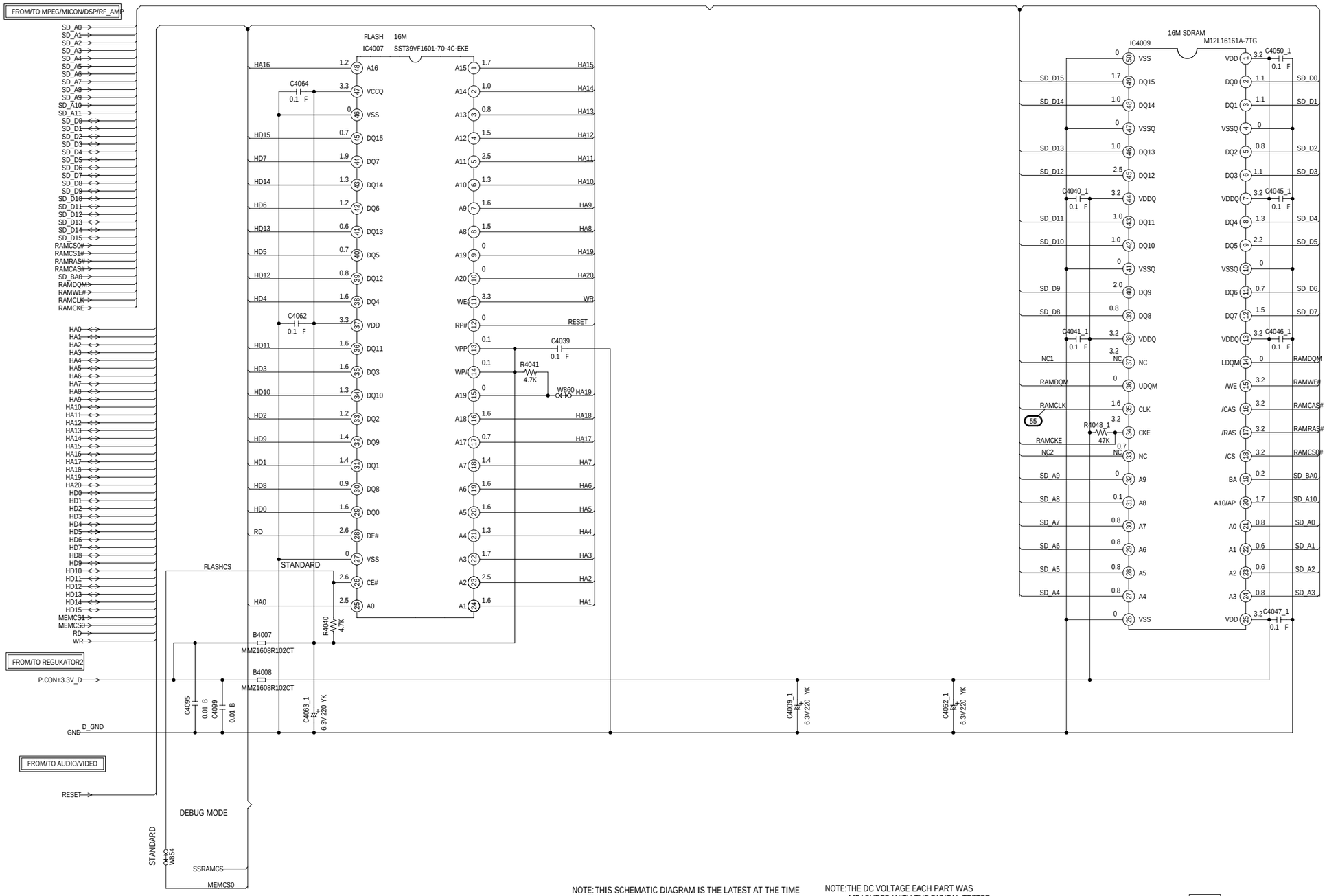
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

PCB130
DMF066

# MEMORY2 SCHEMATIC DIAGRAM

(DVD PCB)



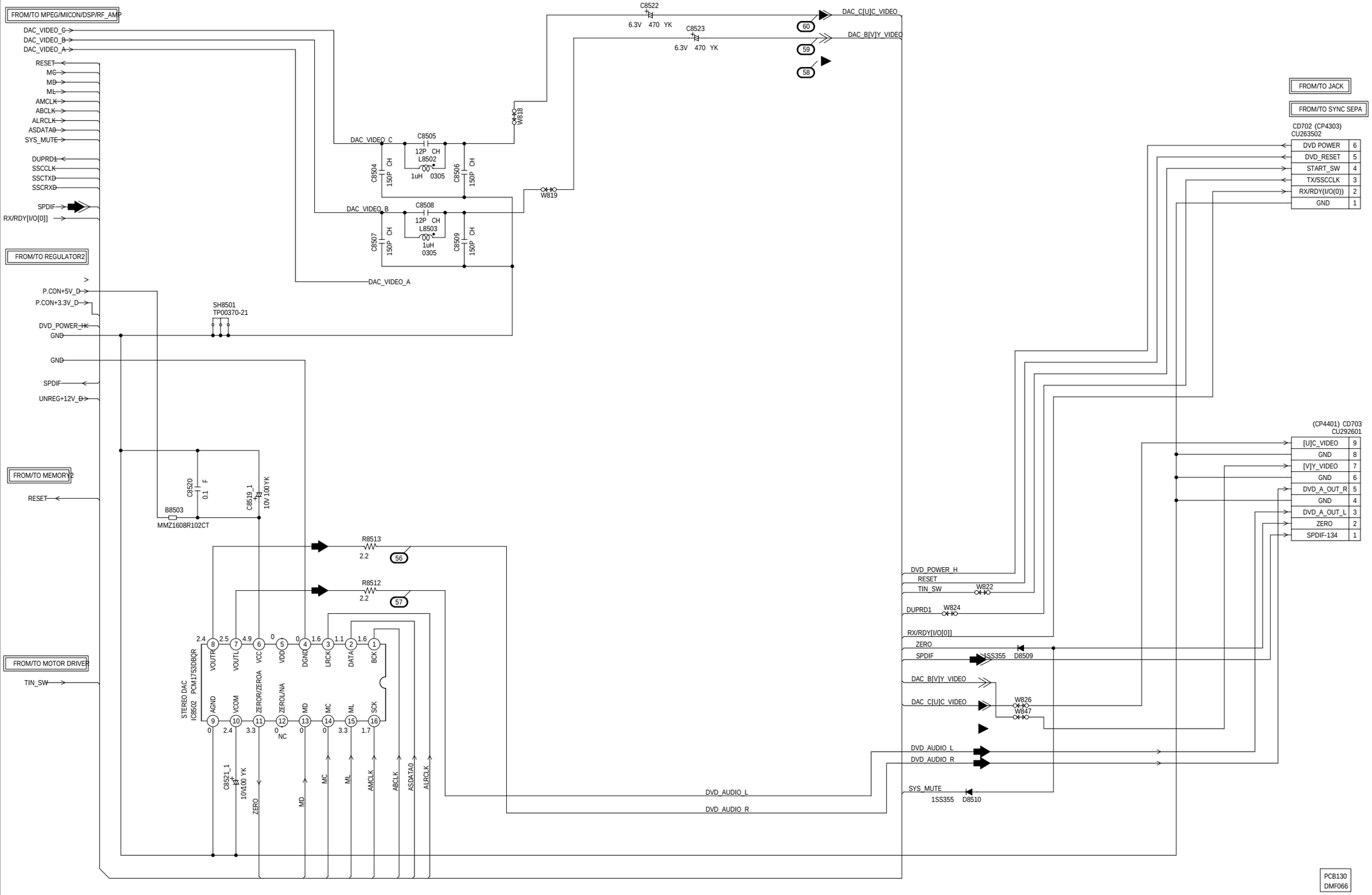

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

PCB130
DMF066

# AUDIO/VIDEO SCHEMATIC DIAGRAM

## (DVD PCB)




◀ PLAYBACK LUMINANCE SIGNAL
◀◀ R.SIGNAL+COMPONENT SIGNAL(U)
≪ B.SIGNAL+COMPONENT SIGNAL(V)

◀◀ DIGITAL AUDIO SIGNAL(PB)
◀ AUDIO SIGNAL(PB)

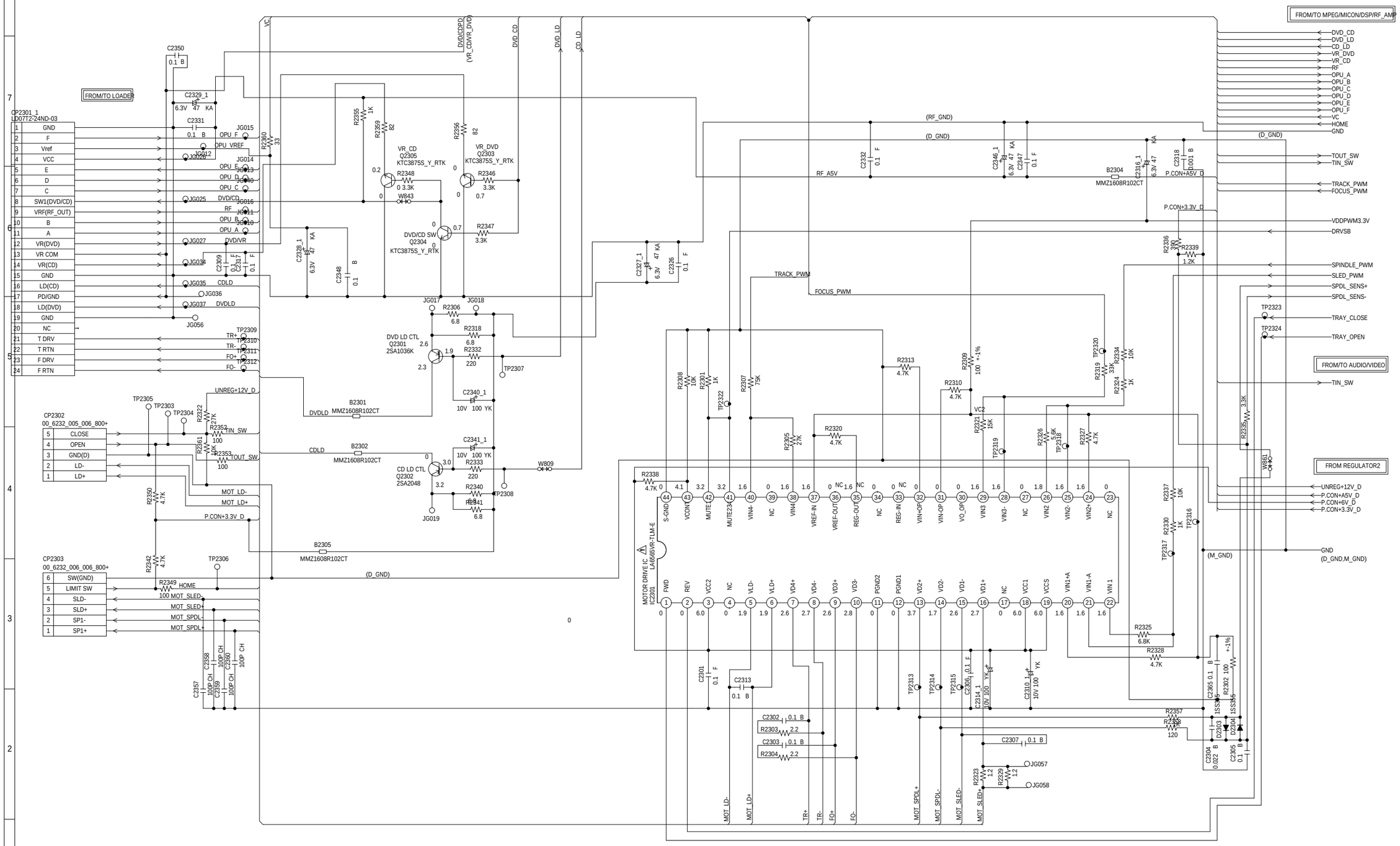
NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

CAUTION: DIGITAL TRANSISTOR

# MOTOR DRIVE SCHEMATIC DIAGRAM

## (DVD PCB)




**CAUTION** SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

**ATTENTION** :LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

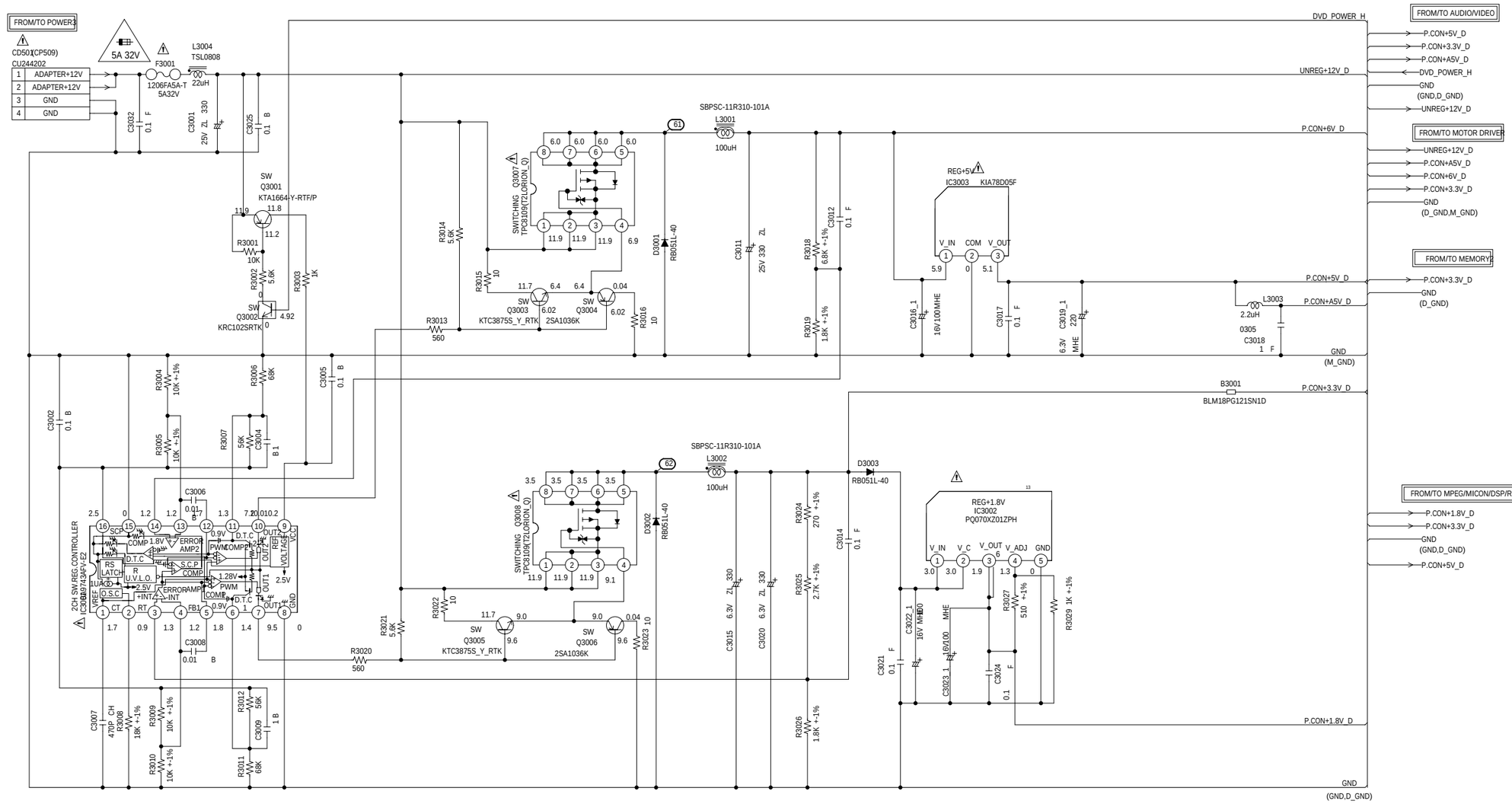
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

PCB130
DMF066

# REGULATOR2 SCHEMATIC DIAGRAM

## (DVD PCB)




5A 32V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 5A 32V (F3001)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 5A 32V (F3001)

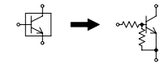
CAUTION: F3001 IS MANUFACTURED BY COOPER INDUSTRIES INC., TYPE 1206FA-T.

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

CAUTION: DIGITAL TRANSISTOR

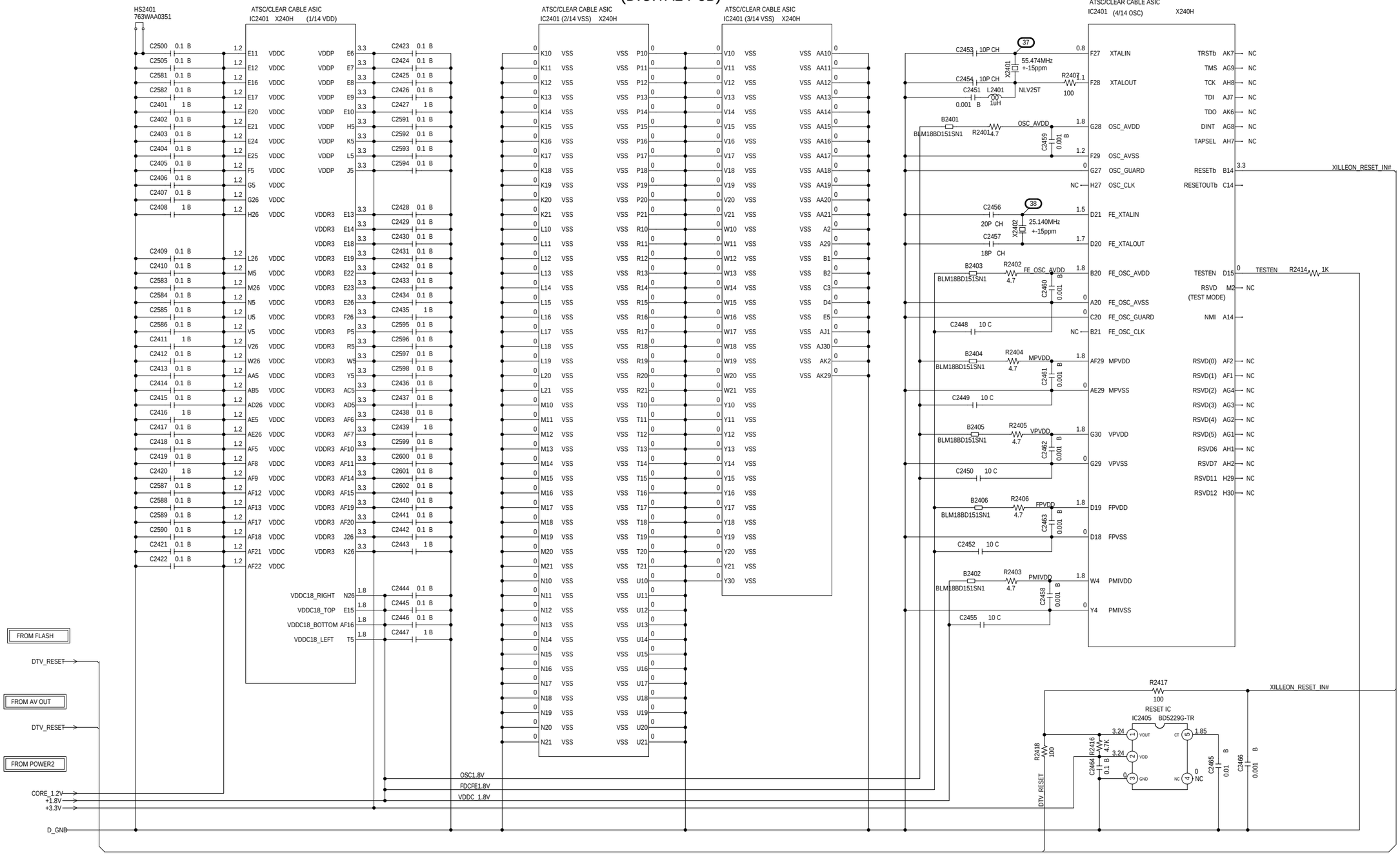


NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

PCB130
DMF066

# ASIC SCHEMATIC DIAGRAM

## (DIGITAL PCB)



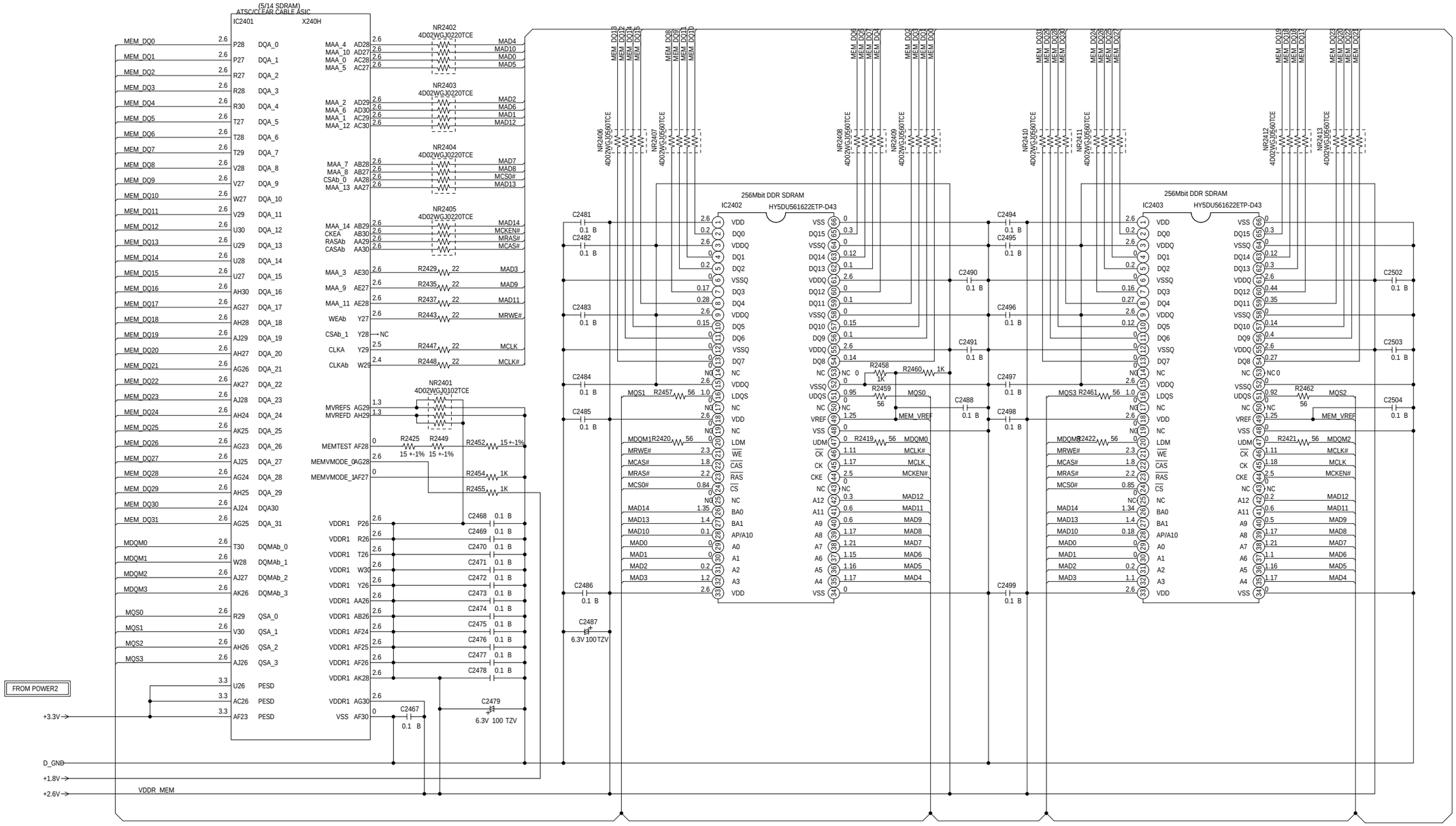

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDH0
CEF169

# SDRAM SCHEMATIC DIAGRAM

## (DIGITAL PCB)



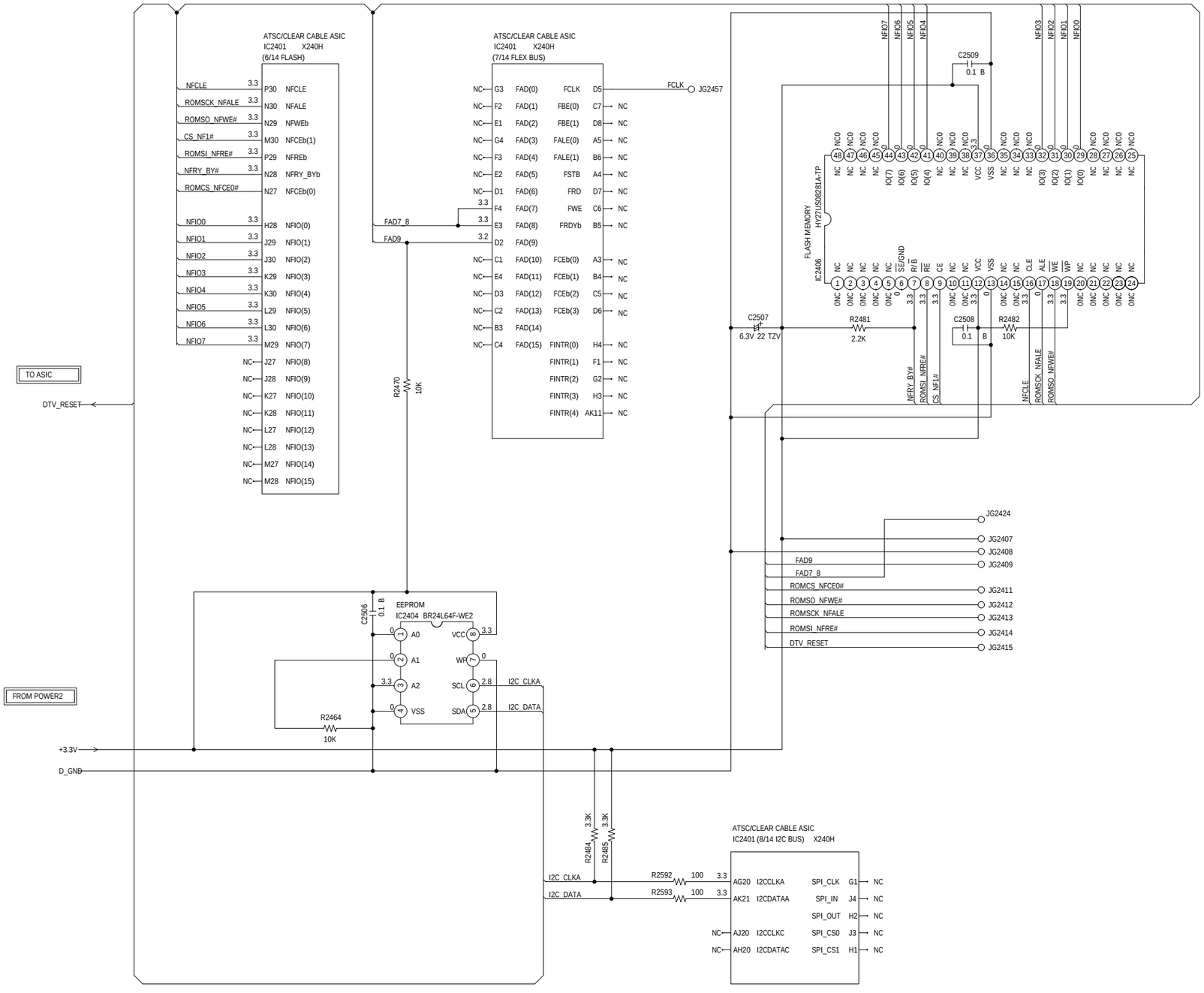

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDH0
CEF169

# FLASH SCHEMATIC DIAGRAM

## (DIGITAL PCB)

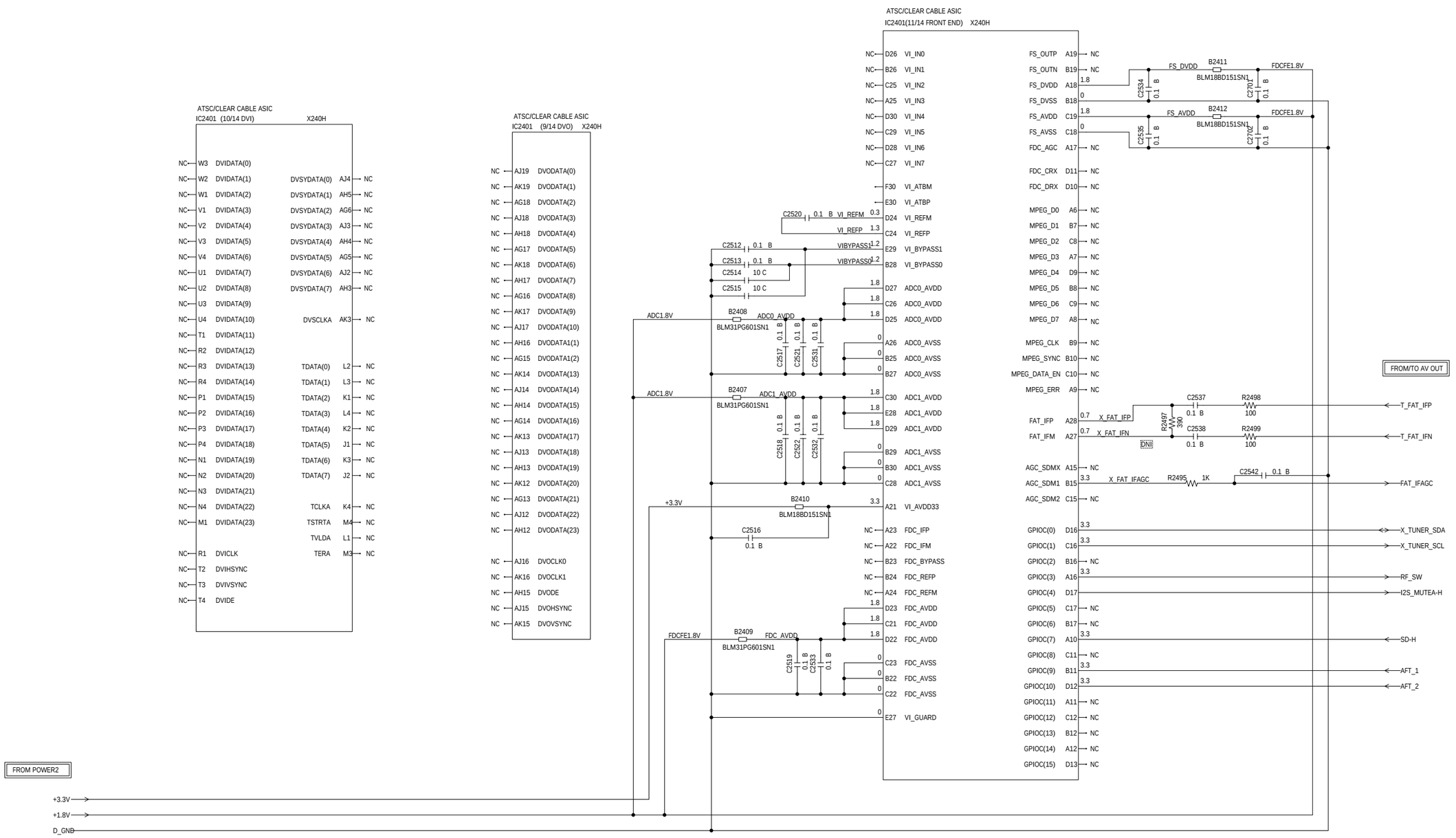



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDH0
CEF169

# FRONT END SCHEMATIC DIAGRAM
## (DIGITAL PCB)



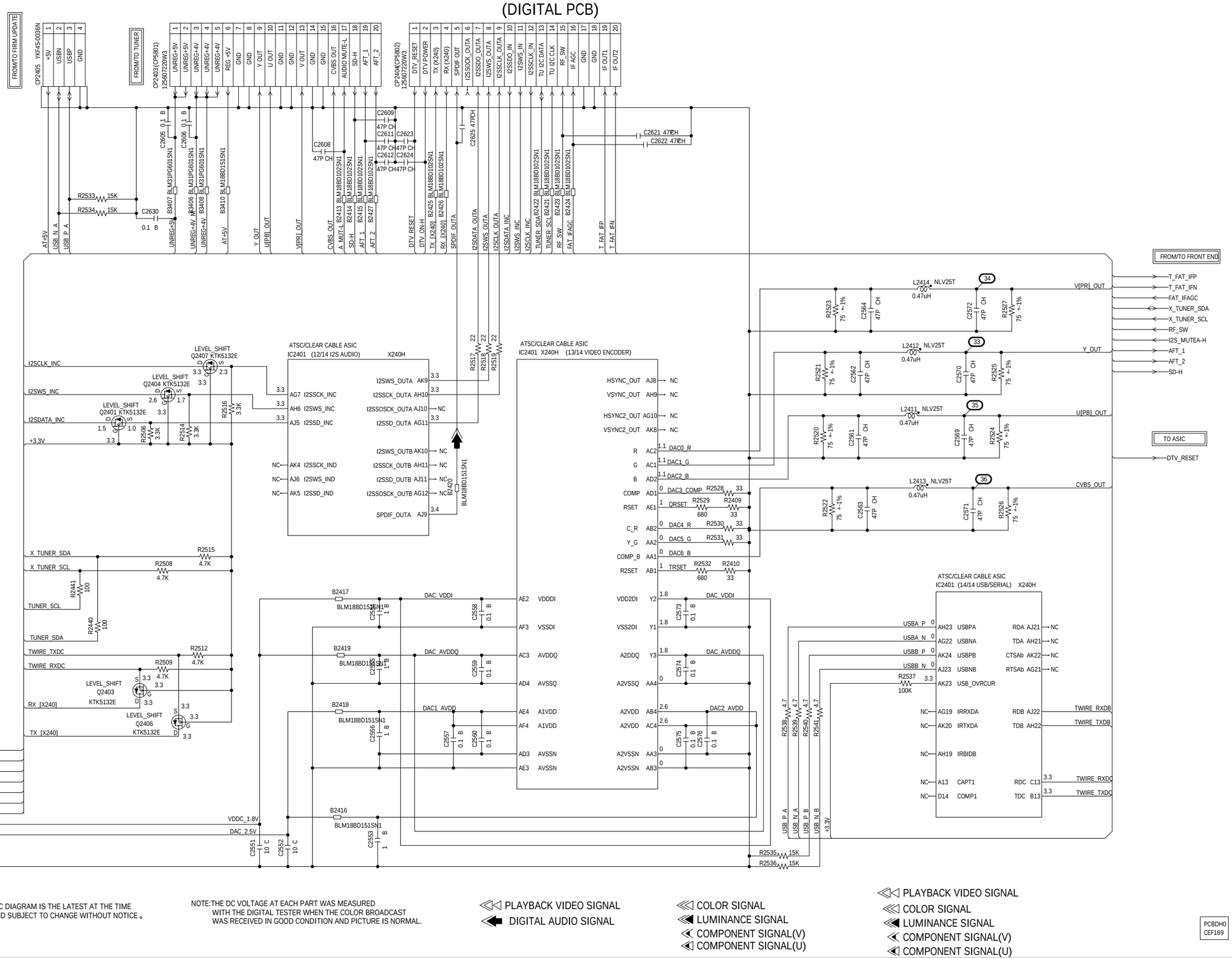

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDH0
CEF169

# AV OUT SCHEMATIC DIAGRAM

## (DIGITAL PCB)




NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

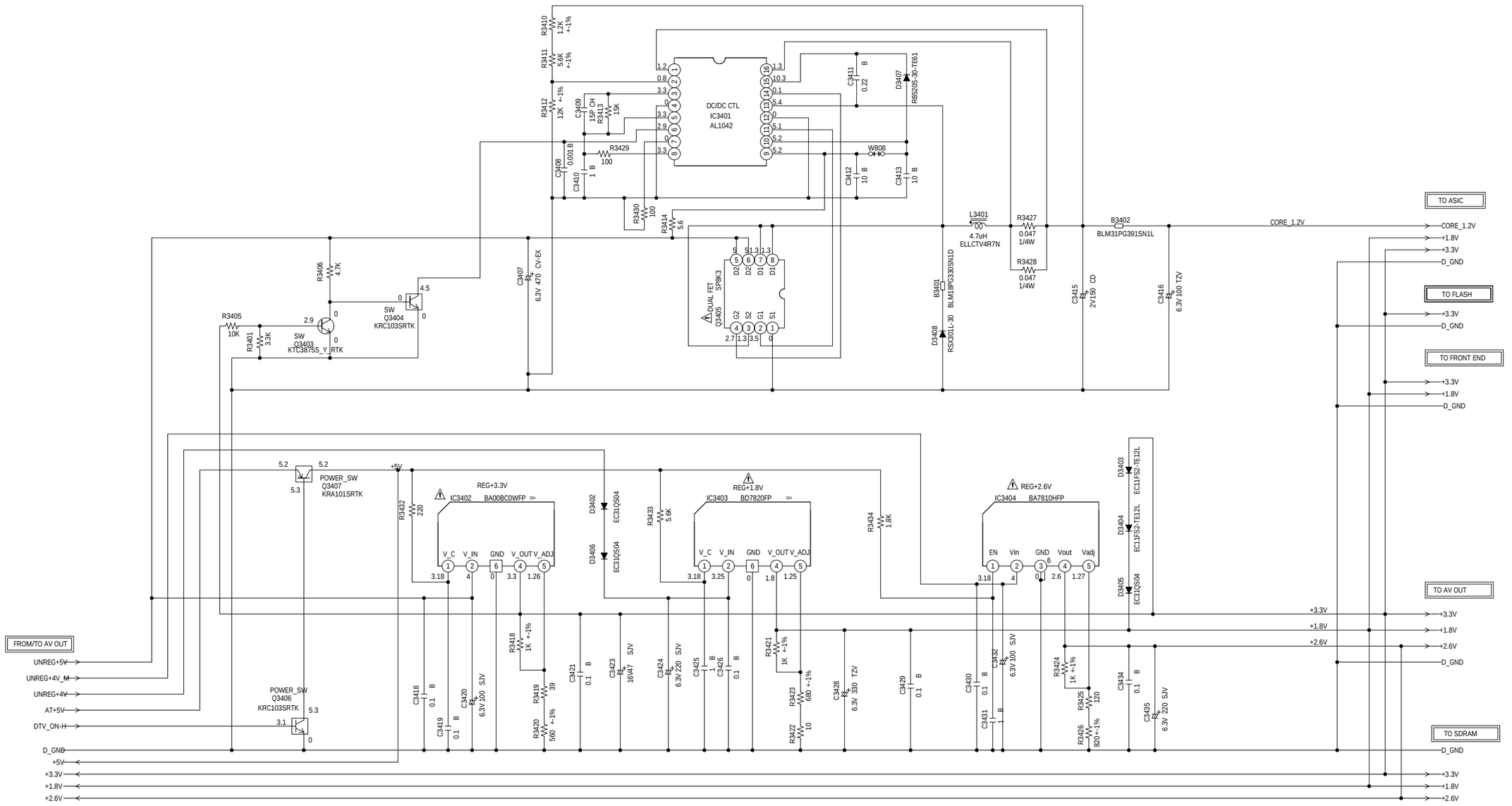
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PLAYBACK VIDEO SIGNAL
DIGITAL AUDIO SIGNAL
COLOR SIGNAL
LUMINANCE SIGNAL
COMPONENT SIGNAL(V)
COMPONENT SIGNAL(U)
PLAYBACK VIDEO SIGNAL
COLOR SIGNAL
LUMINANCE SIGNAL
COMPONENT SIGNAL(V)
COMPONENT SIGNAL(U)

PCBDH0
CEF169

# POWER2 SCHEMATIC DIAGRAM

## (DIGITAL PCB)



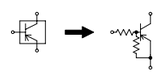

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

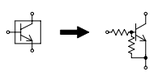
**CAUTION** SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY 。

**ATTENTION**: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

CAUTION: DIGITAL TRANSISTOR

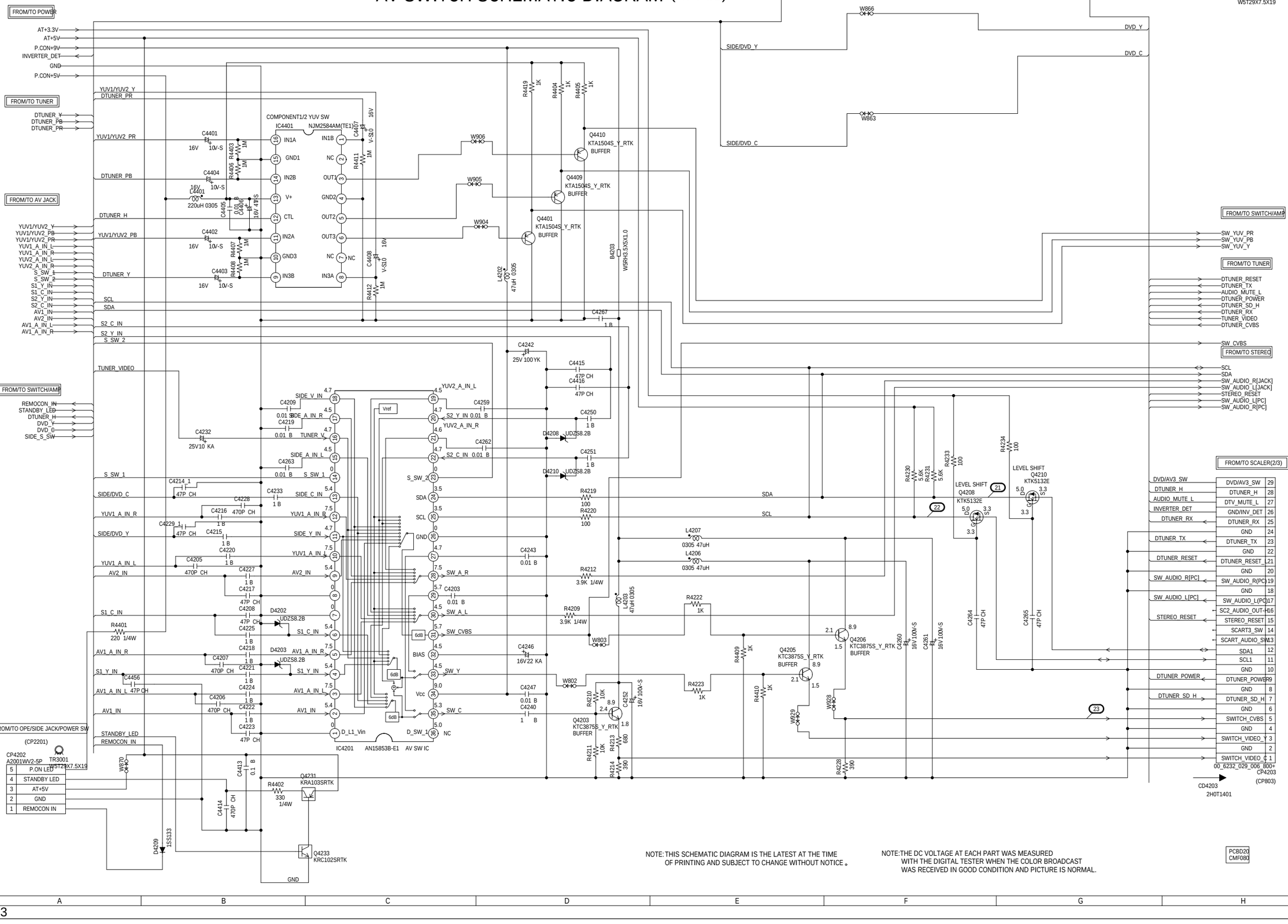


CAUTION: DIGITAL TRANSISTOR



PCBDH0
CEF169

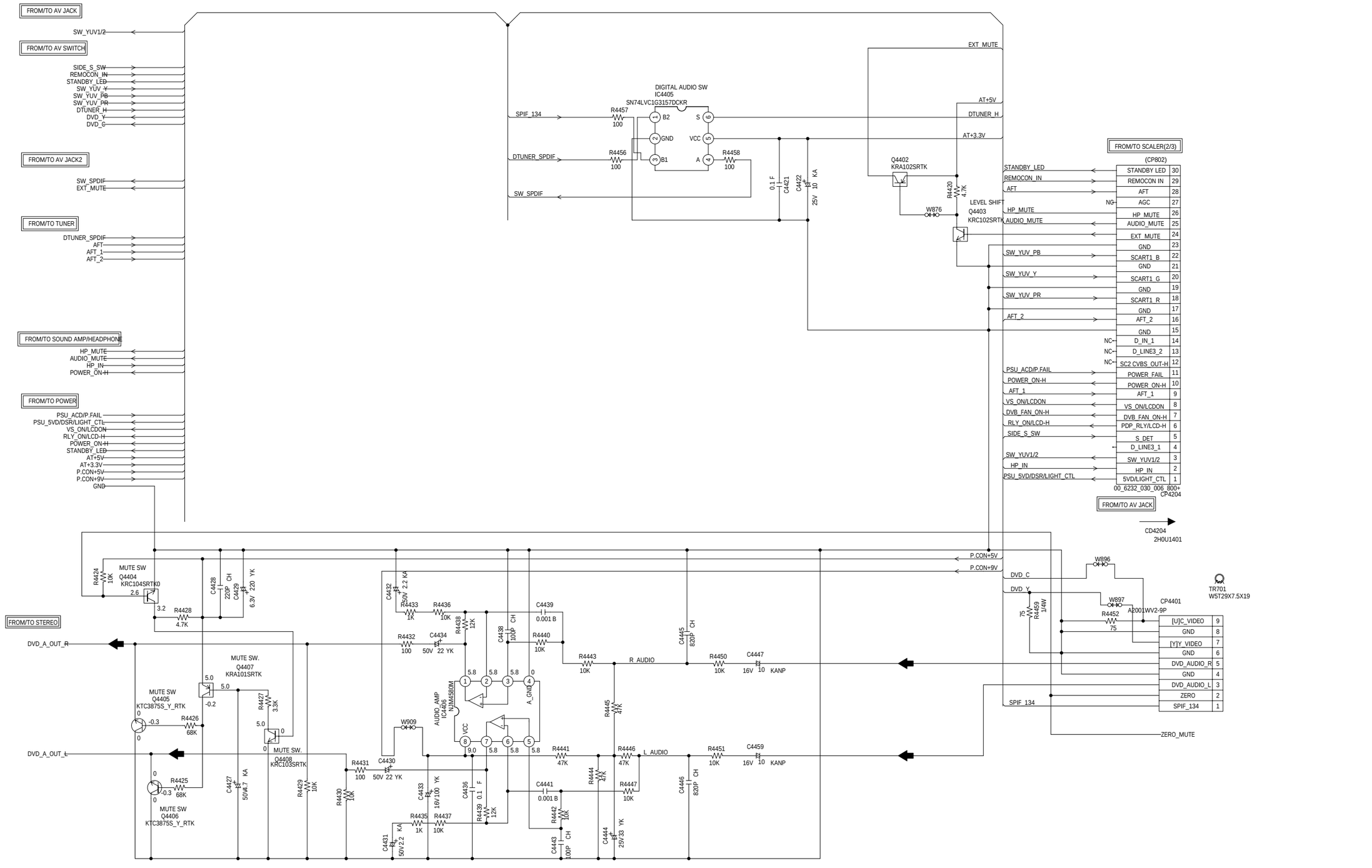
# AV SWITCH SCHEMATIC DIAGRAM (AV PCB)




NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

# SWITCH/AMP SCHEMATIC DIAGRAM (AV PCB)

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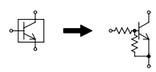
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

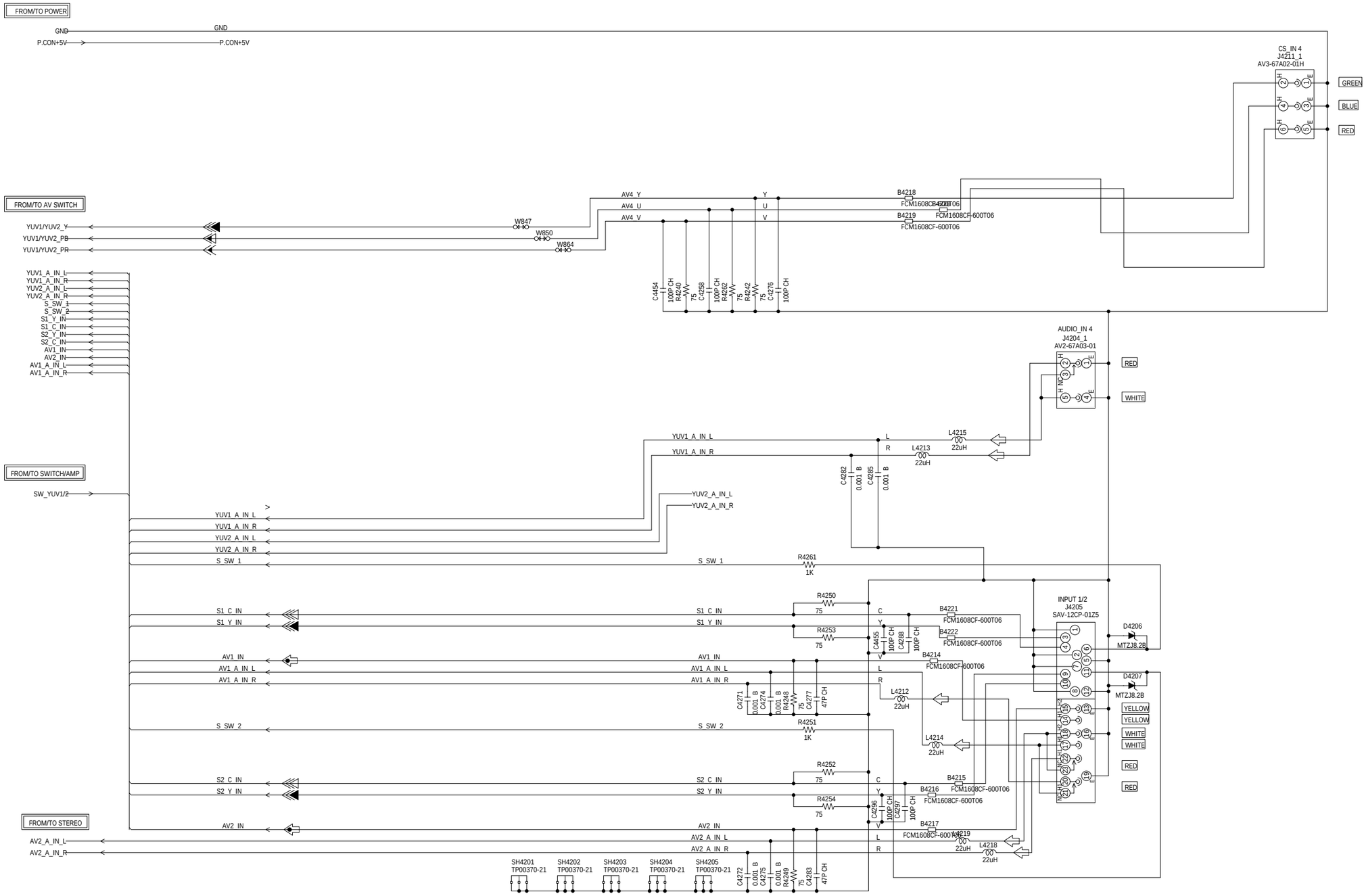
**CAUTION** SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY 。

CAUTION: DIGITAL TRANSISTOR



PCBD20
CMF080

# AV JACK SCHEMATIC DIAGRAM




COMPONENT SIGNAL(V)
COMPONENT SIGNAL(U)
COLOR SIGNAL
LUMINANCE SIGNAL
VIDEO SIGNAL
AUDIO SIGNAL

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

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# STEREO SCHEMATIC DIAGRAM

## (AV PCB)

FROM/TO POWER

AT+5V — W839 — P.CON+5V — GND — P.CON+8V

R914 10K — R915 10K — Q902 KTC3875S_Y_RTK — Q901 KTC3875S_Y_RTK — R913 1K — C906 10V220 YK — L901 10uH 0305

B901 BLM18PG121SN1D — B902 FCM1608CF-600T06 — B903 BLM18PG121SN1D

FROM/TO TUNER

I2SSD0_OUTA
I2SWS_OUTA
I2SSCLK_OUTA
I2SSD0_IN
I2SWS_IN
I2SSCLK_IN

R905 100 — R906 100

L903 10uH 0305

C922 0.1 B — D901 MTZJ5.6B — C924 16V 22-V-S — C933 6.3V 1000 YK — C941 0.0015 B — C943 470P CH — C945 220P CH — C948 22P CH — C949 22P CH

R901 33 — R902 33 — R903 33

L904 10uH 0305

W892 — B904 FCM1608KF-102T02 — W893 — W916 — W894 — B906 FCM1608KF-102T02

FROM/TO HDMI MICON2

CP901 A2001WV2-4P

| | |
|---|---|
| HDMI_I2SSCK | 4 |
| HDMI_I2SSDO | 3 |
| HDMI_I2SWS | 2 |
| GND | 1 |

CD901 CU247001

FROM/TO SOUND AMP

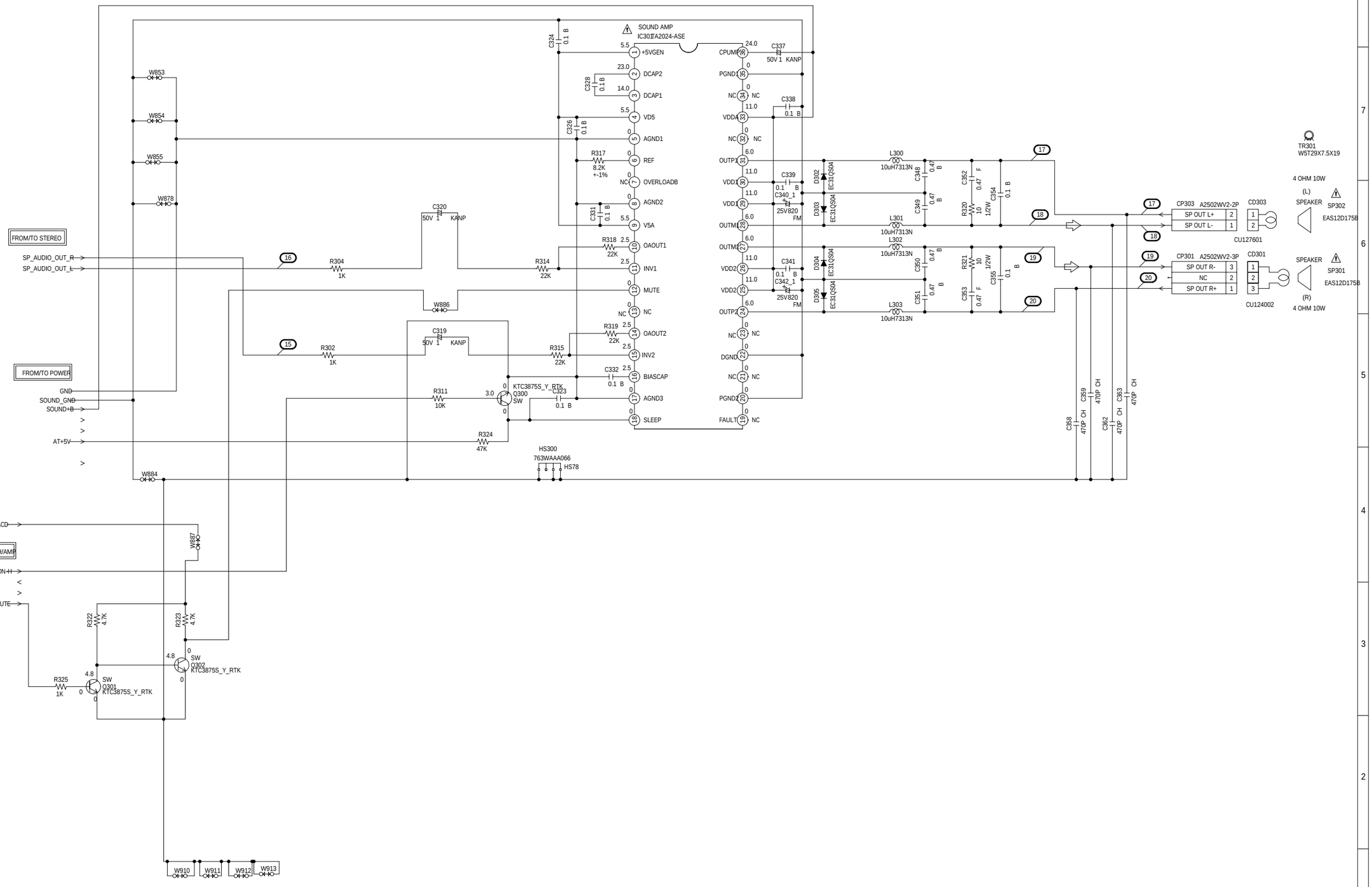
W857 — W927 — SP_AUDIO_OUT_L — SP_AUDIO_OUT_R — C959 0.0022 B

W855 — W930 — C958 0.0022 B

| | | |

# SOUND AMP/HEADPHONE AMP SCHEMATIC DIAGRAM

## (AV PCB)




**CAUTION** SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

**ATTENTION** LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

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# POWER SCHEMATIC DIAGRAM

## (AV PCB)

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

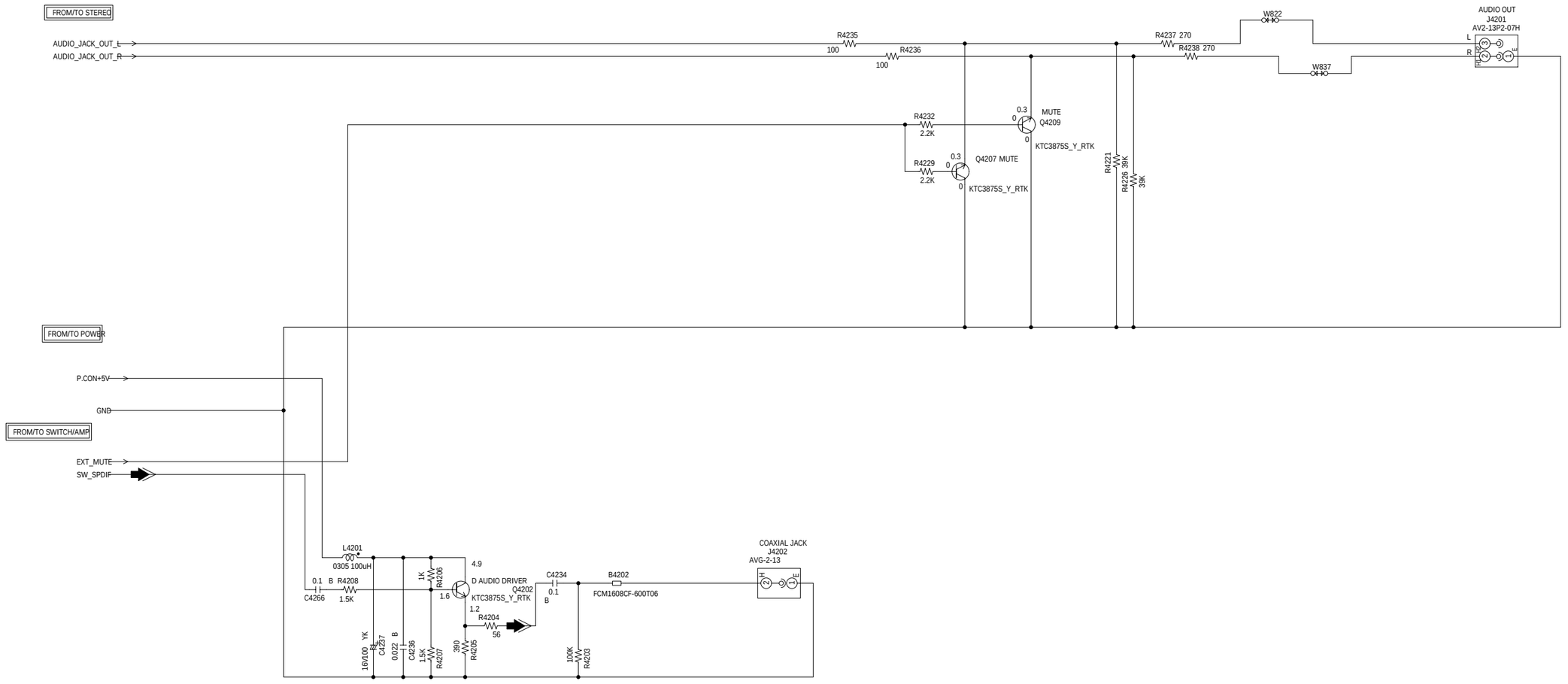
ATTENTION:LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

CAUTION: DIGITAL TRANSISTOR

PCBD20
CMF080

# AV JACK2 SCHEMATIC DIAGRAM

(AV PCB)




NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

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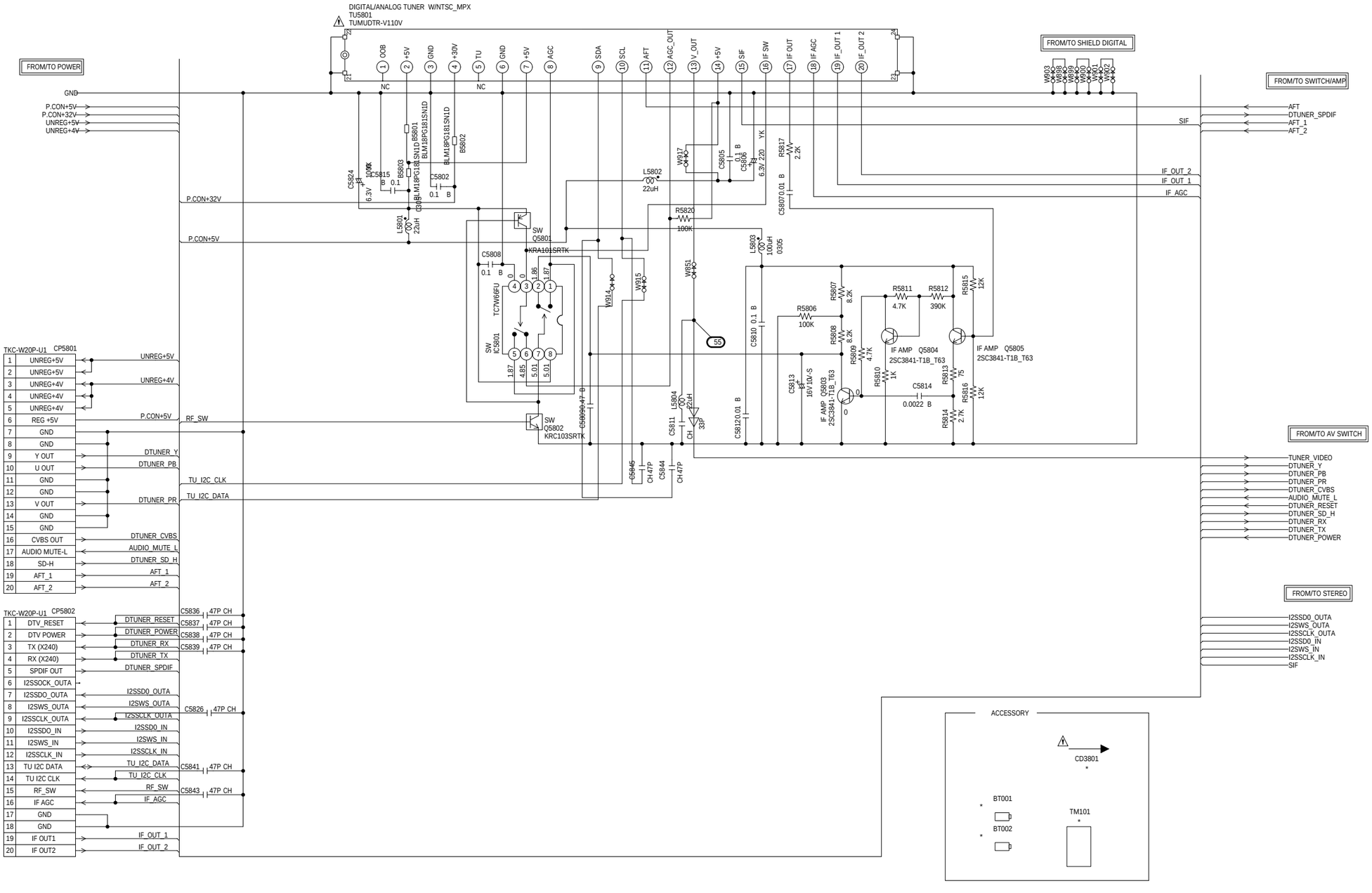
PCBD20
CMF080

# TUNER SCHEMATIC DIAGRAM
# (AV PCB)




AUDIO SIGNAL
VIDEO SIGNAL
TUNER VIDEO SIGNAL
LUMINANCE SIGNAL
COMPONENT SIGNAL(U)
COMPONENT SIGNAL(V)
COLOR SIGNAL

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBD20
CMF080

# MICOM SCHEMATIC DIAGRAM (SCALER PCB)

FROM/TO LVDS

POWER_ON-H
I2C_READY
IRQ
CPUGO
PDWN
PDPGO

PSU_5VD/DSR
SCART_AUDIO_SW
DVB_RESET-L
DVB_POWER_CTL-H
DVB_MUTE-L
SD_H
DVB_ASPECT_IN
HP_MUTE
SCART1_Y
DVS
I2C_READY
DTUNER_H
DVD/AV3

FROM/TO SCALER

DVB_FAN_ON-H
DVD/AV3
DTUNER_H
STANDBY_LED
REMOCON_IN
AFT
AGC
SCART2_SW
SCART1_SW
SCART1_Y
EXT_MUTE-H
SC2_CVBS_OUT-H
POWER_FAIL
POWER_ON-H
LCD-H
LCDON
LIGHT_CTL
HP_MUTE
SC2_AUDIO_OUT-H
STEREO_RESET
SDA1
SCL1
4SI_SCL
4SI_SDA_IN
4SI_SDA_OUT
4SI_CHIP_SE
AUDIO_MUTE
SCALER_RESET
S_DET
SCART3_SW
SW_SCART
SCART_AUDIO_SW
VS_ON
PDP_RLY
HP_IN
PSU_5VD/DSR
COMPONENT/HDMI
DVS
DVB_SW-H
SCALER_SW
INVERTER_DET
DVB_MUTE-L
DVB_RX
DVB_TX
DVB_RESET-L
DVB_POWER_CTL-H
AFT_1[LOW]
AFT_2[HIGH]

SCALER-H
START_SW
DVD_RESET
SCALER_RESET
S_DET
IIC_OFF
LCD-H
AFT_1[LOW]
AFT_2[HIGH]
LCDON
VS_ON
PDP_RLY
AFT
KEY-B
KEY-A
I2C_READY
DTUNER_H
DVD/AV3

R159 4.7K
R158 4.7K
R175 100
R102 10K
R199 1K
R200 1K
R103 2.2K
R104 2.2K
R131 10K

D106 UDZS5.68
D101 UDZS5.68
C106 0.1 B
C123 0.1 B
C104 0.1 B
C101 6.3V 220 V-S
C102 0.1 F
JG114
JG101
JG120
JG103
JG104
JG137

C_SYNC
4SI_CHIP_SE
4SI_DATA_OUT
4SI_DATA_IN
4SI_CLK
BYTE
CNVSS
(32KHz_IN)
(32KHz_OUT)
RESET
XOUT
VSS
XIN
VCC1
NC
REMOCON IN
POWER FAIL
POWER ON-H
SYNC_HD_IN
DVD POWER ON-H
NC
NC
NC
LIGHT_CTL
DDVS

R105 4.7K
JG116
JG118
C113 0.1 B
R107 4.7K
X101 16MHz 100WT01631
C118 0.1 B
C114 18P CH
C111 18P CH
C109 0.1 B
C110 6.3V 220 V-S
R160 10K
R161 4.7K
R154 4.7K
R155 4.7K
R156 4.7K
R157 4.7K
R106 4.7K
D109 RB520S-30-TE61
R108 27K
R112 1K
C139 1 B
R114 100
R115 100
JG112
JG134

FROM/TO ADC

SCL1
SDA1
DDHS
DDVS

TO INTERFACE_HDMI IC

HDMI_MUTE
HDMI_H

FROM/TO REGULATOR

AT+3.3V
P.CON+3.3V
SCALER-H
P.CON+5V
AT+5V
SCALER_RESET
HDMI_H

GND

FROM/TO AV SWITCH1

C_SYNC
SD_SW1
SCL1
SDA1
YUV_SW

IC101
MICOM
OEC7155B

(1) C_SYNC
(2) 4SI_CHIP_SE
(3) 4SI_DATA_OUT
(4) 4SI_DATA_IN
(5) 4SI_CLK
(6) BYTE
(7) CNVSS
(8) (32KHz_IN)
(9) (32KHz_OUT)
(10) RESET
(11) XOUT
(12) VSS
(13) XIN
(14) VCC1
(15) NC
(16) REMOCON IN
(17) POWER FAIL
(18) POWER ON-H
(19) SYNC_HD_IN
(20) DVD POWER ON-H
(21) NC
(22) NC
(23) NC
(24) LIGHT_CTL
(25) DDVS
(26) NC
(27) SCL1
(28) SDA1
(29) DVD_TX
(30) DVD_RX
(31) (CLK1)
(32) (RST1)
(33) DVB_TX
(34) DVB_RX
(35) EPM
(36) YUV_SW
(37) SCALER_SW
(38) HDMI/DVI
(39) P50/^WRL/^WR
(40) SD_SW1
(41) NC
(42) NC
(43) DVB_FAN_ON-H
(44) DVB_SW-H
(45) EEPROM_SDA
(46) EEPROM_SCL
(47) NC
(48) STANDBY_LED
(49) SC2_AUDIO_OUT-H
(50) SC2_CVBS_OUT-H
(51) AVCC
(52) AVSS
(53) KEY-A
(54) KEY-B
(55) VREF
(56) NC
(57) S_JACK_IN_DET
(58) SCALER_RESET
(59) DVD_RESET
(60) SW_SCART/COMPONENT_SW
(61) IIC_OFF
(62) LCD_H
(63) AFT_1[LOW]
(64) AFT_2[HIGH]
(65) LCDON
(66) VS_ON
(67) PDP_RLY
(68) A_TUNER_AFT
(69) DVD_POWER
(70) COMPOSITE/RGB
(71) V_SYNC
(72) SD_H
(73) 5VD
(74) HEADPHONE_IN
(75) SCALER-H
(76) DVB_POWER_CTL-L
(77) DVB_MUTE-L
(78) DVB_ASPECT_IN
(79) DVB_RESET-L
(80) SCART3_SW
(81) SCART2_SW/S_DET2
(82) SCART1_SW/S_DET1
(83) VSS
(84) SCART_AUDIO_SW
(85) VCC2
(86) HP_MUTE
(87) AUDIO_MUTE
(88) EXT_MUTE-H
(89) NC
(90) STEREO_RESET
(91) EEPROM_SCL
(92) EEPROM_SDA
(93) DVB_SW-H
(94) DVB_FAN_ON-H
(95) NC
(96) NC
(97) NC
(98) DTUNER_H
(99) DVD/AV3
(100) HDMI_MUTE

LEVEL SHIFT Q104 KTK5132E
LEVEL SHIFT Q106 KTK5132E
R194 100
R193 4.7K 5.6K
R137 4.7K
R136 4.7K
R141 100
R142 100
R195 100
R192 5.6K
EEPROM_SCL
EEPROM_SDA
AT+5V

R153 4.7K
R165 4.7K
C116 6.3V 220 V-S
C117 0.1 F
AUDIO_MUTE
EXT_MUTE-H
DVB_SW-H
DVB_FAN_ON-H

FROM/TO JACK

YUV_SW
DVD_POWER
DVD_RX
DVD_TX
START_SW
DVD_RESET
HDMI/DVI
KEY-A
KEY-B

P.CON+5V
SW Q105 KRA103SRTK
SW Q101 KRC103SRTK
R151 10K
STEREO_RESET

R178 4.7K
STANDBY_LED
JG102
JG105
JG106
R134 1K
SD_SW1
R119 4.7K
JG127
R120 1K
HDMI/DVI
R123 1K
YUV_SW
R122 4.7K
JG129
R181 1K
HDMI_H
JG130
JG131
R145 JG135 DVB_RX
R146 100 JG136 DVB_TX
RST1
CLK1
R147 100 DVD_RX
W885 DVD_TX
INVERTER_DET

(28) SDA1
(27) SCL1
(26) NC

(50) SC2_CVBS_OUT-H
(49) SC2_AUDIO_OUT-H
(48) STANDBY_LED
(47) NC

(98) DTUNER_H
(99) DVD/AV3
(100) HDMI_MUTE

AT+3.3V W897
SCALER_RESET
4SI_CHIP_SE
4SI_SCL
4SI_SDA_IN
4SI_SDA_OUT

| | |
|---|---|
| NC | 7 |
| RESET | 6 |
| CHIP_SELECT | 5 |
| 4SI_SCL | 4 |
| 4SI_SDA_IN | 3 |
| 4SI_SDA_OUT | 2 |
| GND | 1 |

A2001WV2-7P
PC_CONTROL CP103

CP101 A2001WV2-5P

| | |
|---|---|
| GND | 1 |
| EEPROM_SCL | 2 |
| EEPROM_SDA | 3 |
| IIC_OFF | 4 |
| GND | 5 |

EEPROM_SCL
EEPROM_SDA
IIC_OFF
INVERTER_DET

FROM WRITER

MICON_DATA
CP102 A2001WV2-10P

| | |
|---|---|
| GND | 1 |
| TX | 2 |
| BUSY | 3 |
| NC | 4 |
| VCC | 5 |
| CLK | 6 |
| RX | 7 |
| CNVSS | 8 |
| RESET | 9 |
| GND | 10 |

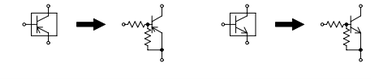
DVD_TX
DVD_RX
RST1
CLK1
CNVSS
AT+5V

RESET IC IC102 PST3229NR
R111 10K
R117 4.7K
R135 10K
R116 4.7K
D105 RB520S-30-TE61
W820
C128 0.1 F
R149 10K
C125 6.3V 100 V-S
C126 0.01 B
C131 50V0.47 V-S
C136 50V2.2 V-S

IC103 AT24C256N-10SU-2.7 EEP ROM IC 256K
IC104 AT24C256N-10SU-2.7 EEP ROM IC 256K
R188 10K
R189 10K

EEPROM_SCL
EEPROM_SDA

CAUTION: DIGITAL TRANSISTOR
CAUTION: DIGITAL TRANSISTOR



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NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

PCBDSC CEF170

# SCALER SCHEMATIC DIAGRAM

## (SCALER PCB)

FROM/TO TUNER/OUT JACK

CP802(CP4204)
00_6232_030_006_800+

| | |
|---|---|
| 1 | STANDBY LED |
| 2 | REMOCON IN |
| 3 | AFT |
| 4 | AGC |
| 5 | HP_MUTE |
| 6 | AUDIO_MUTE |
| 7 | EXT_MUTE-H |
| 8 | GND |
| 9 | SCART1_B |
| 10 | GND |
| 11 | SCART1_G |
| 12 | GND |
| 13 | SCART1_R |
| 14 | GND |
| 15 | AFT_2/DTV_CVBS |
| 16 | GND |
| 17 | SCART1_Y |
| 18 | SCART2_SW |
| 19 | SC2_CVBS_OUT-H |
| 20 | POWER_FAIL |
| 21 | POWER_ON-H |
| 22 | AFT_1 |
| 23 | LCDON |
| 24 | DVB_FAN_ON-H |
| 25 | LCD-H/PDP_RLY |
| 26 | S_DET |
| 27 | SCART1_SW |
| 28 | SW_YUV1/2 |
| 29 | HP_IN |
| 30 | LIGHT CTL/PSU_5VD |

FROM/TO AV SWITCH2

CP803(CP4203)
00_6232_029_006_800+

| | |
|---|---|
| 1 | DVD/AV3_SW |
| 2 | DTUNER_H |
| 3 | DTV_MUTE_L |
| 4 | GND/INV_DET |
| 5 | DTUNER_RX |
| 6 | GND |
| 7 | DTUNER_TX |
| 8 | GND |
| 9 | DTUNER_RESET_L |
| 10 | GND |
| 11 | SW_AUDIO_R(PC) |
| 12 | GND |
| 13 | SW_AUDIO_L(PC |
| 14 | SC2_AUDIO_OUT-H |
| 15 | STEREO_RESET |
| 16 | SCART3_SW |
| 17 | SCART_AUDIO_SW |
| 18 | SDA1 |
| 19 | SCL1 |
| 20 | GND |
| 21 | DTUNER_POWER |
| 22 | GND |
| 23 | DTUNER_SD_H |
| 24 | GND |
| 25 | SWITCH_CVBS |
| 26 | GND |
| 27 | SWITCH_VIDEO_Y |
| 28 | GND |
| 29 | SWITCH_VIDEO_C |

FROM/TO AV SWITCH1

SW_G/SW_Y
SW_R/SW_CR
SW_B/SW_CB
SW2_R/CR
SW2_G/Y
SW2_B/CB
SW_CVBS
SW_VIDEO_Y

SCALER
IC801
R8J66607A72FP

FROM/TO MICOM

STANDBY_LED
REMOCON_IN
AFT
AGC
SCART2_SW
SCART1_SW
SCART1_Y
EXT_MUTE-H
SC2_CVBS_OUT-H
POWER_FAIL
POWER_ON-H
LCD-H
LCDON
LIGHT_CTL
HP_MUTE
SC2_AUDIO_OUT-H
STEREO_RESET
AUDIO_MUTE
SDA1
SCL1
SCALER_RESET
4SI_CHIP_SE
4SI_SDA_OUT
4SI_SDA_IN
4SI_SCL
S_DET
SCART3_SW
SW_SCART
PDP_RLY
VS_ON
HP_IN
PSU_5VD/DSR
COMPONENT/HDMI
HDMI/DVI
SCART_AUDIO_SW
DVS
DVB_SW-H
SWITCH_CVBS
DTV_CVBS
DVB_FAN_ON-H
DTUNER_H
DVD/AV3
SCALER_SW
DVB_MUTE-L
DVB_RX
DVB_TX
DVB_RESET-L
DVB_POWER_CTL-H
SD_H
AFT_1[LOW]
AFT_2[HIGH]
INVERTER_DET

INTERFACE_HDMI IC

HDMI_MUTE

FROM ADC

DDHS
DDVS
DDCK
DPR7
DPR6
DPR5
DPR4
DPR3
DPR2
DPR1
DPR0
DPG7
DPG6
DPG5
DPG4
DPG3
DPG2
DPG1
DPG0
DPB7
DPB6
DPB5
DPB4
DPB3
DPB2
DPB1
DPB0

TO LVDS

DR2
DR3
DR4
DR5
DR6
DR7
DR8
DR9
DG2
DG3
DG4
DG5
DG6
DG7
DG8
DG9
DB2
DB3
DB4
DB5
DB6
DB7
DB8
DB9
DCLK1
DVS
DHS
DEN

FROM/TO REGULATOR

P.CON+5V
P.CON+1.5V
P.CON+3.3V
GND

FROM/TO JACK

SW_AUDIO_R[PC]
SW_AUDIO_L[PC]

AUDIO SIGNAL(PB)

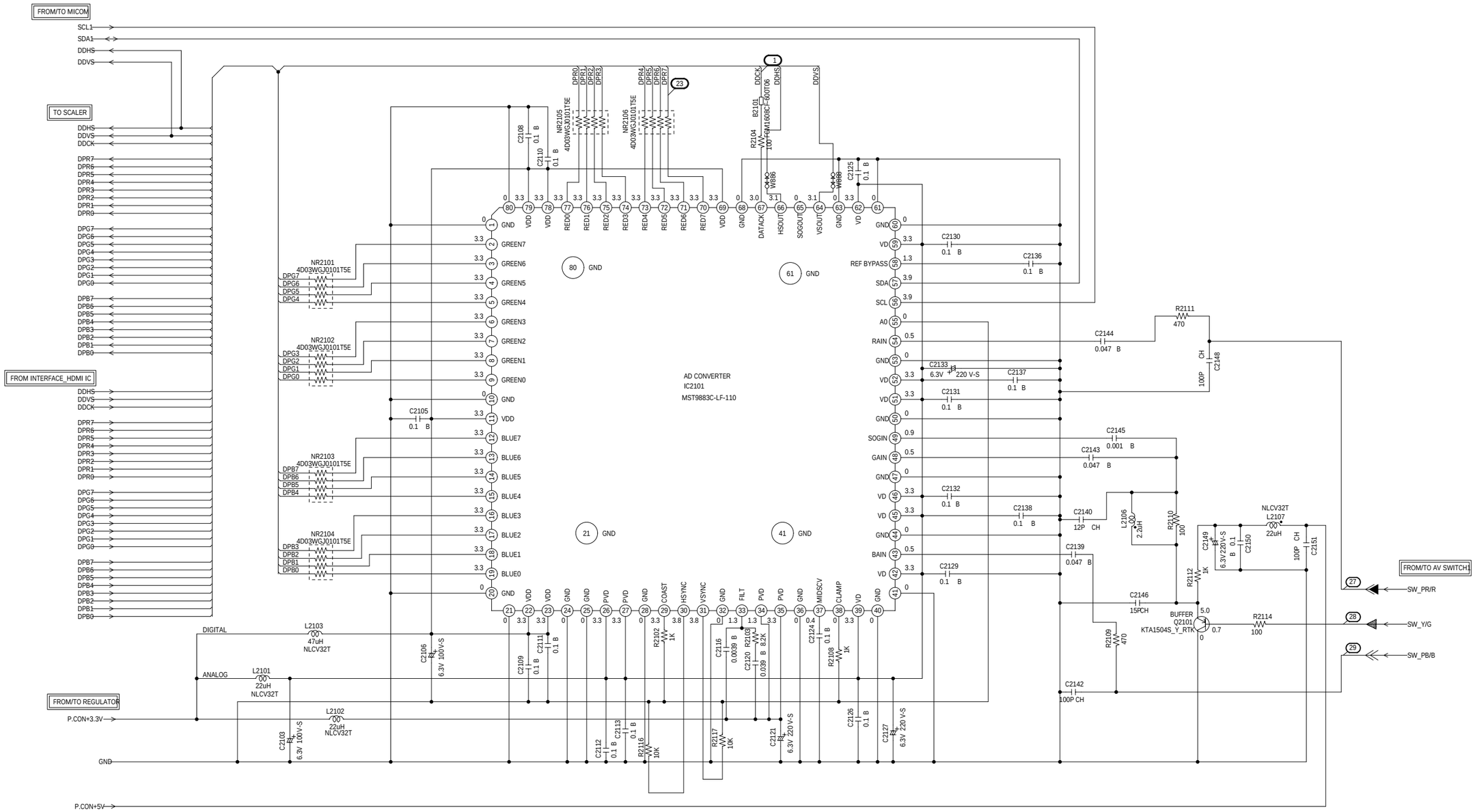
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

PCBDS0
CEF170

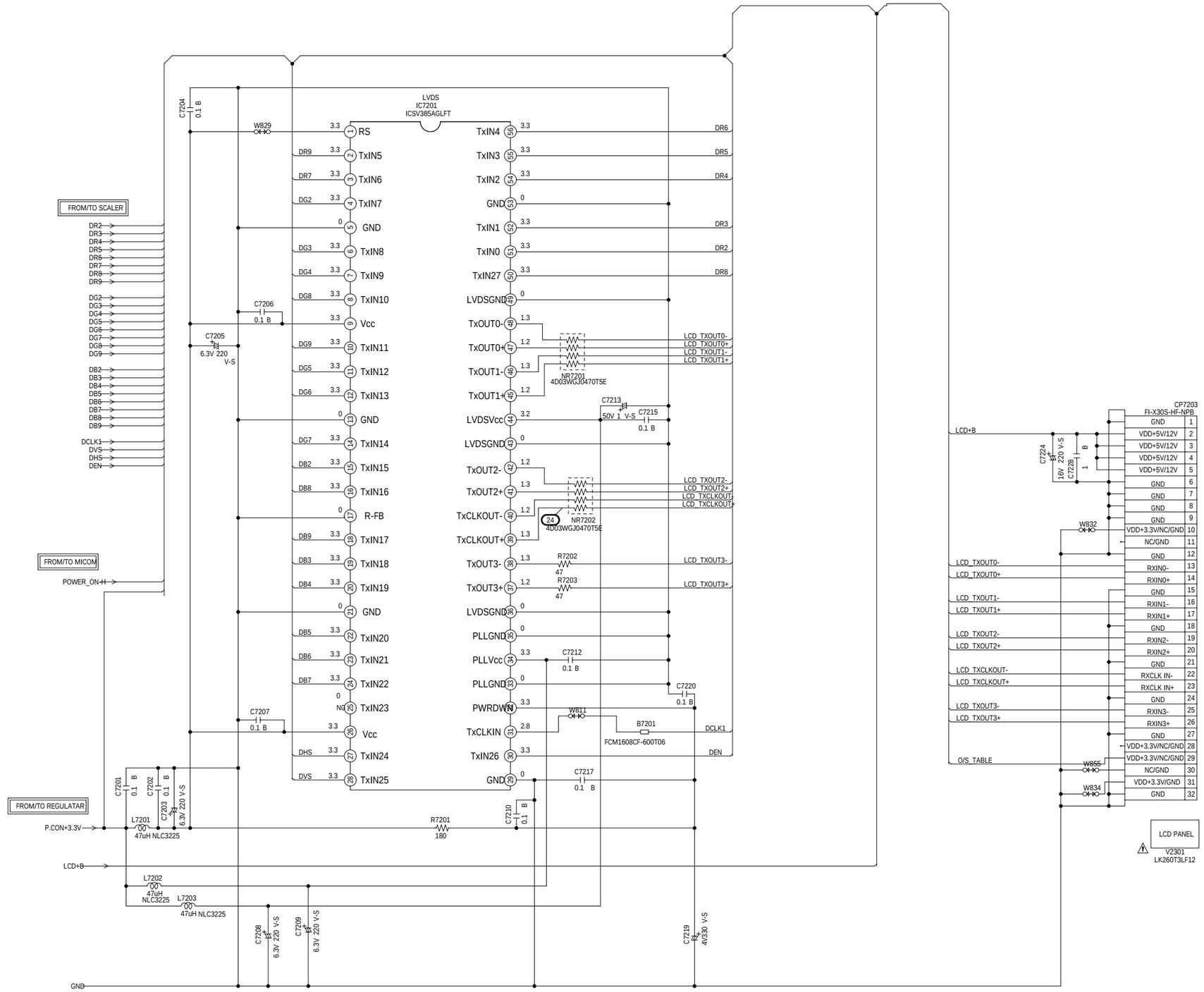
# ADC SCHEMATIC DIAGRAM

## (SCALER PCB)



# LVDS SCHEMATIC DIAGRAM

## (SCALER PCB)



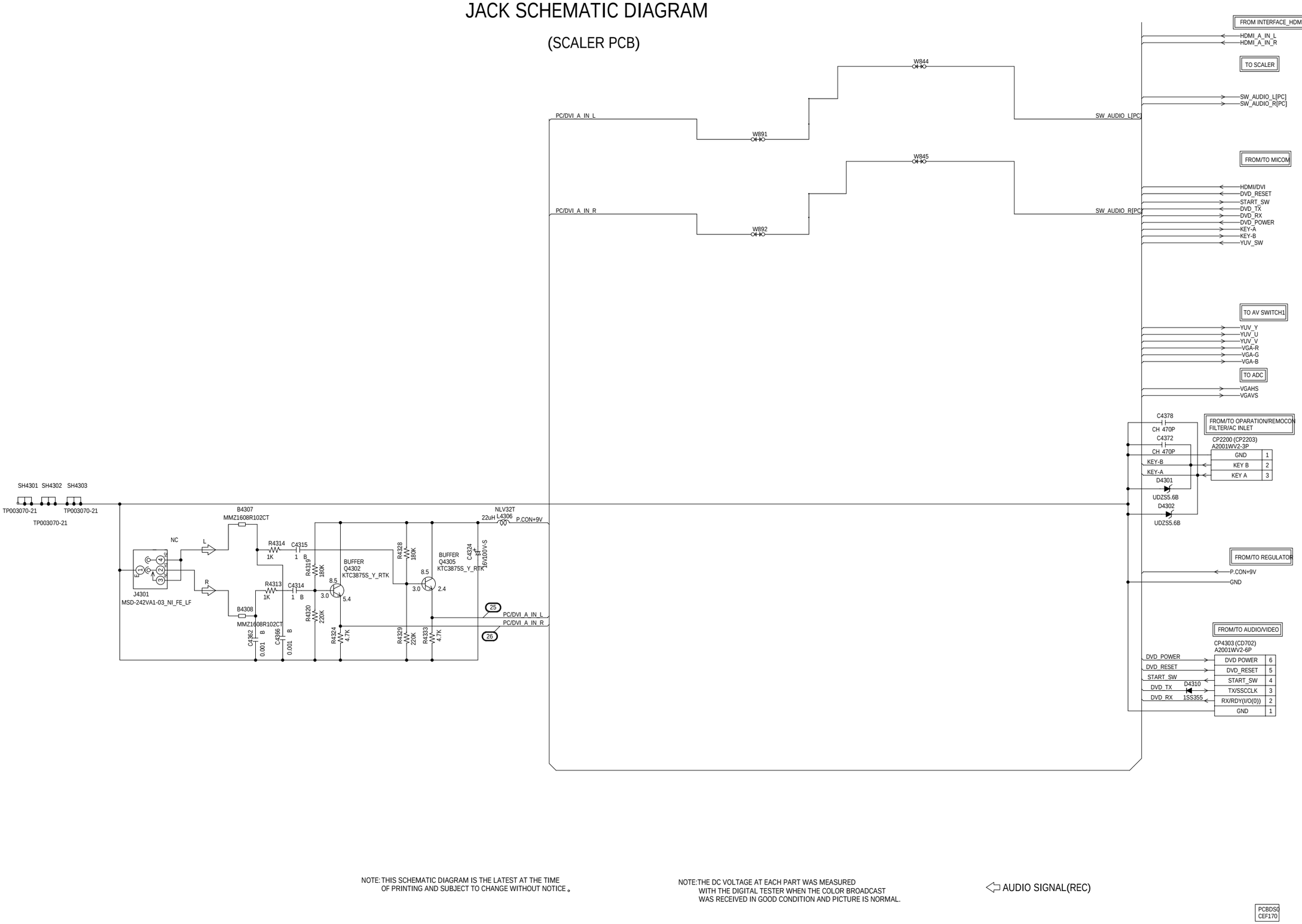

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

PCBDSC CEF170

# JACK SCHEMATIC DIAGRAM

## (SCALER PCB)




NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

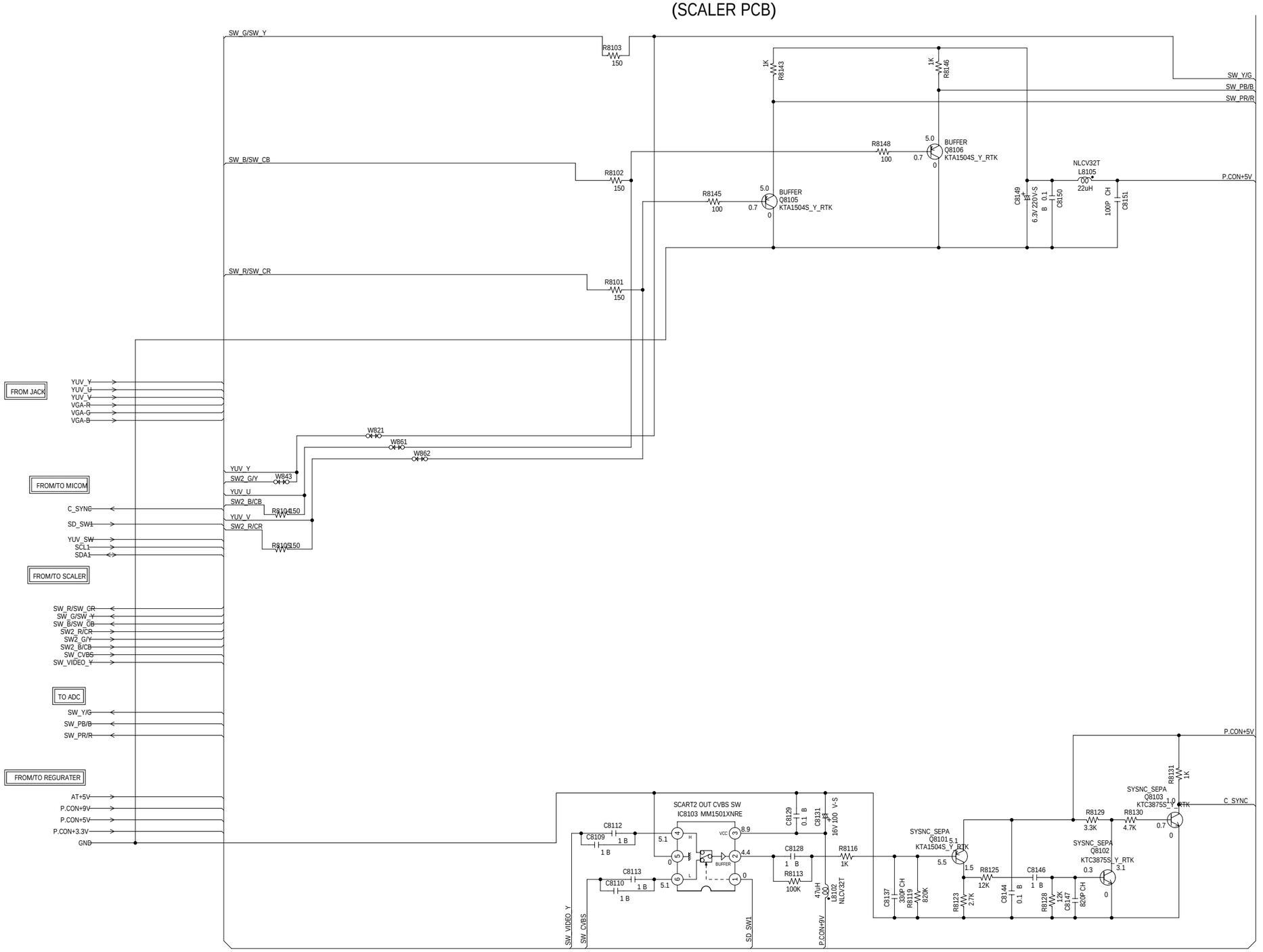
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

⇦ AUDIO SIGNAL(REC)

PCBDSC
CEF170

# AV SWITCH1 SCHEMATIC DIAGRAM

## (SCALER PCB)



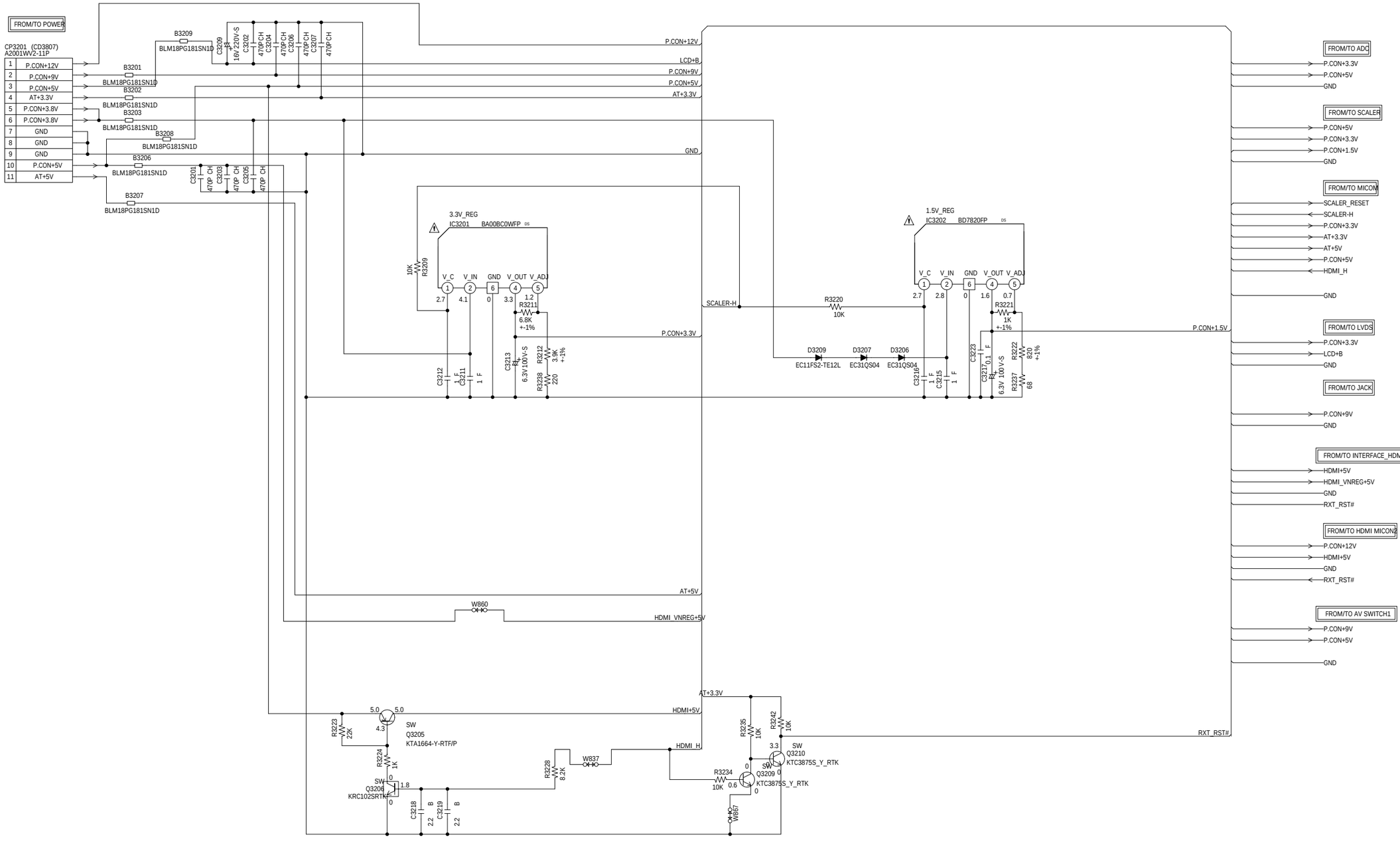

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDS0
CEF170

# REGULATOR SCHEMATIC DIAGRAM

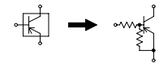
## (SCALER PCB)




CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

ATTENTION LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR

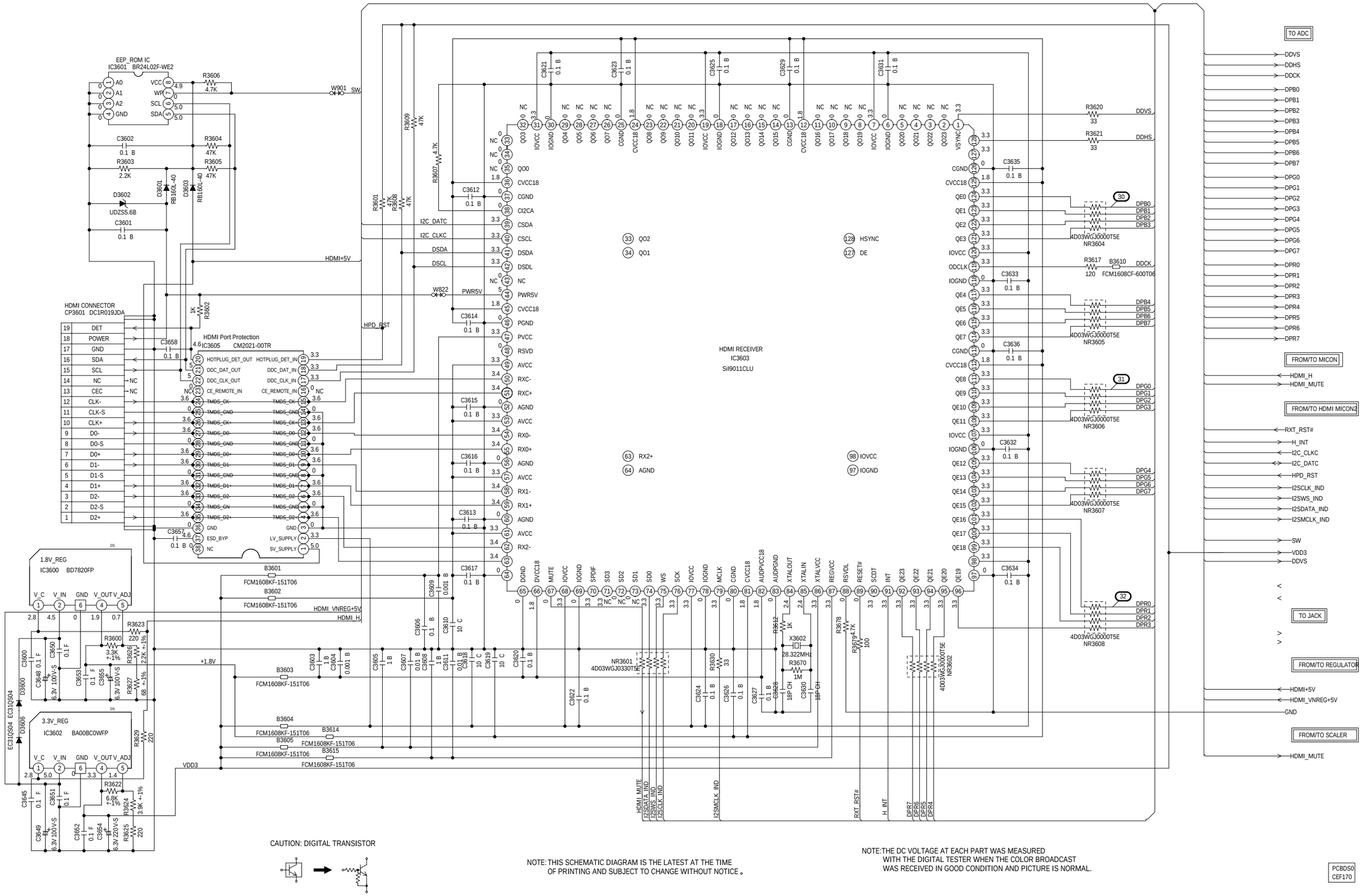
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

PCBDS0
CEF170

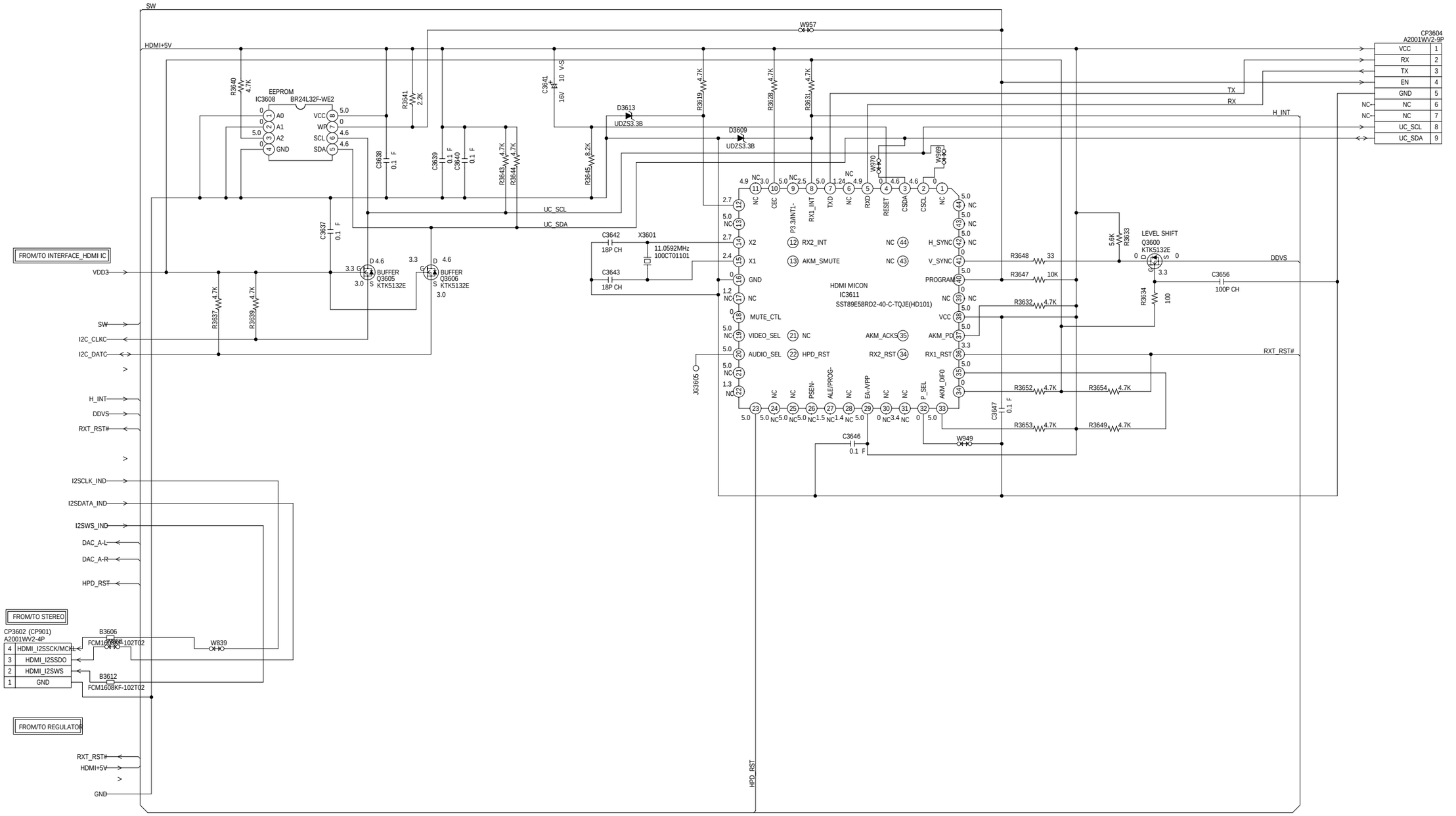
# INTERFACE_HDMI IC SCHEMATIC DIAGRAM

## (SCALER PCB)

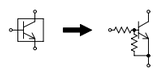


# HDMI MICON2 SCHEMATIC DIAGRAM

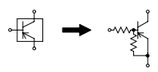
## (SCALER PCB)




CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDS0
CEF170

# POWER3 SCHEMATIC DIAGRAM

## (POWER PCB)

FROM/TO AC INLET

TO INVERTER PCB

CP506 A2001WV2-14P

| | |
|---|---|
| +24V | 1 |
| +24V | 2 |
| +24V | 3 |
| +24V | 4 |
| +24V | 5 |
| GND | 6 |
| GND | 7 |
| GND | 8 |
| GND | 9 |
| GND | 10 |
| NC | 11 |
| BL ON/OFF | 12 |
| Brightness Ctl | 13 |
| SIGNAL GND | 14 |

CD505 CU2E5101

FROM/TO POWER

CP508(CP3808) A2001WV2-7P

| | |
|---|---|
| GND | 7 |
| GND | 6 |
| GND | 5 |
| DTV UNREG+4V | 4 |
| DTV UNREG+4V | 3 |
| DTV UNREG+5V | 2 |
| DTV UNREG+5V | 1 |

CP509 A2001WV2-4P

| | |
|---|---|
| GND | 4 |
| GND | 3 |
| DVD+12V | 2 |
| DVD+12V | 1 |

FROM/TO POWER

CP510 (CP3802) A2501WV2-2P

| | |
|---|---|
| 9VSC | 1 |
| GND | 2 |

FROM/TO POWER

CP511 (CP3803) A2501WV2-12P

| | |
|---|---|
| 5V SC | 1 |
| 5V SC | 2 |
| 5V SC | 3 |
| GND | 4 |
| GND | 5 |
| GND | 6 |
| 12VSC | 7 |
| 12VSC | 8 |
| GND | 9 |
| GND | 10 |
| ST-BY_H | 11 |
| INVETER_DET | 12 |

FROM/TO POWER

CP512 (CP3801) A2501WV2-4P

| | |
|---|---|
| SOUND+B | 1 |
| SOUND+B | 2 |
| SOUND GND | 3 |
| SOUND GND | 4 |

FROM/TO POWER

CP507 (CP3804) A2501WV2-7P

| | |
|---|---|
| POWER_FAIL | 1 |
| LCD-H | 2 |
| AT+5V | 3 |
| GND | 4 |
| BACKLIHGTON | 5 |
| LIGHT_CTL | 6 |
| POWER ON-H | 7 |

CAUTION: ⓗ IS THE LIVE CONNECTION

6.3A 125V 7A 250V

CAUTION :FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 6.3A 125V(F501) AND 7A 250V(F502)

ATTENTION :POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 6.3A 125V(F501) ET 7A 250V(F502)

CAUTION :F503 IS MANUFACTURED BY SKYGATE CO.,LTD, TYPE 20N.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

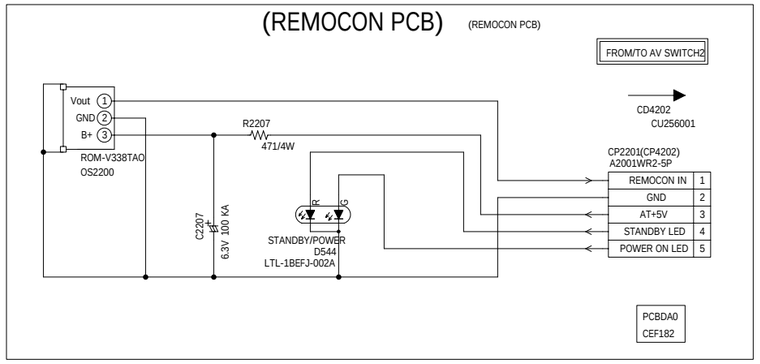
ATTENTION:LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

CAUTION: DIGITAL TRANSISTOR

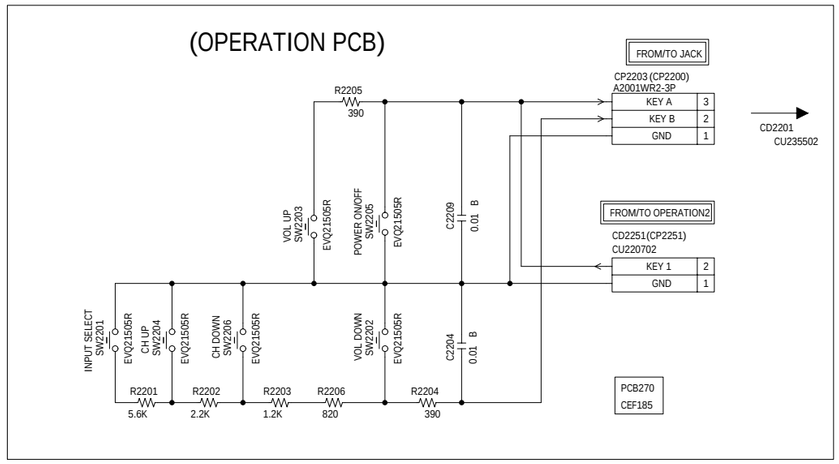
PCB240 CEE171

# OPERATION/REMOCON/FILTER/AC INLET SCHEMATIC DIAGRAM

## (REMOCON PCB)




## (OPERATION PCB)




NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE 。

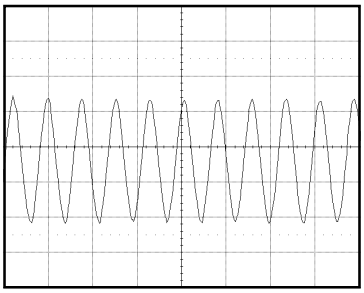
**CAUTION** SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

**ATTENTION** :LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

# WAVEFORMS

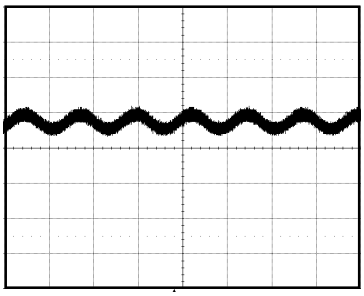
## ADC

20ns
1.0V



①

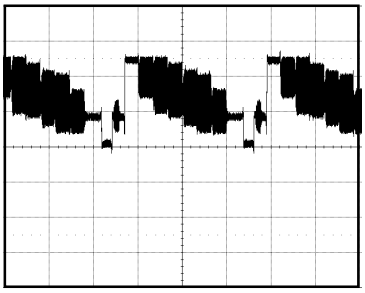
2.0ms
2.0V



⑥

## TUNER

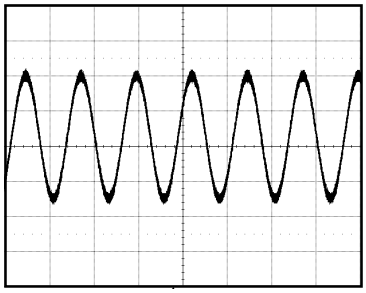
20µs
1.0V



⑪

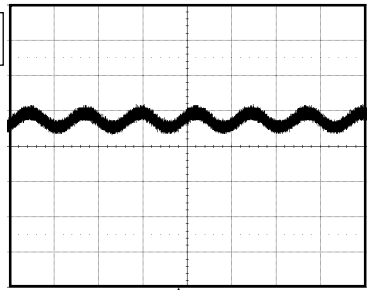
## SOUND AMP/HEADPHON AMP

2.0ms
500mV



②

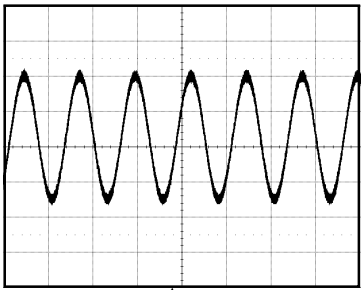
2.0ms
2.0V



⑦

## STEREO

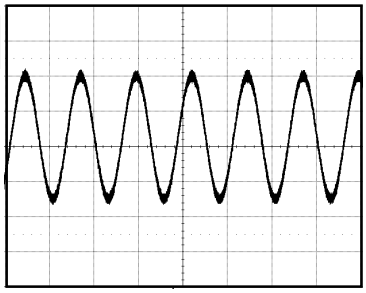
2.0ms
500mV



⑫

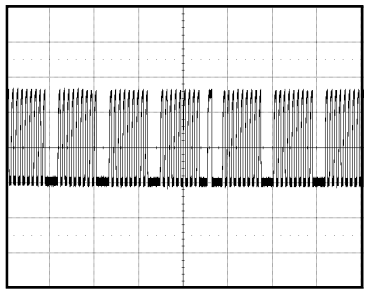
## AV SWITCH2

2.0ms
500mV



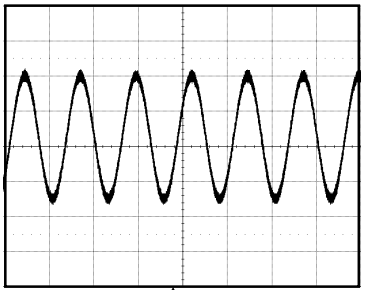
③

100µs
2.0V



⑧

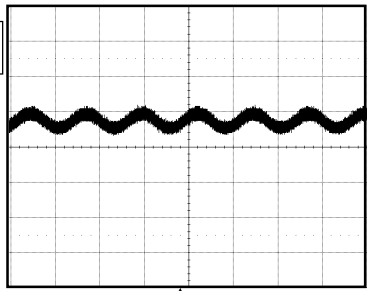
2.0ms
500mV



⑬

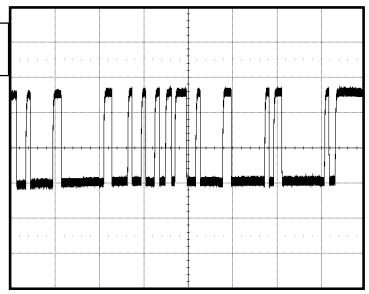
## MICON

2.0ms
2.0V



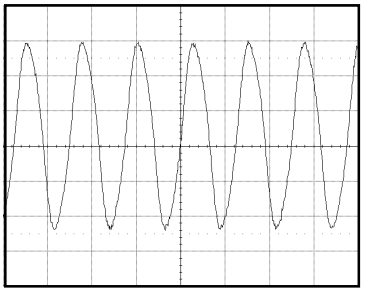
④

100µs
2.0V



⑨

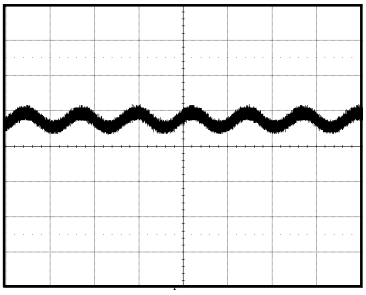
50ns
500mV



⑭

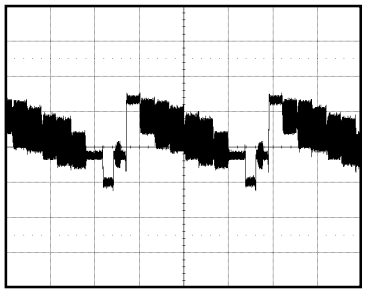
## SCALER

2.0ms
2.0V



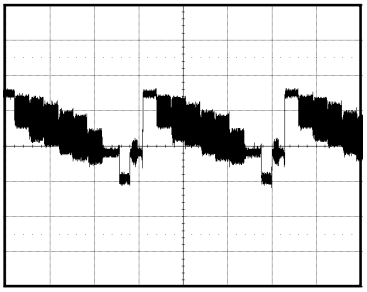
⑤

20µs
500mV



⑩

20µs
500mV



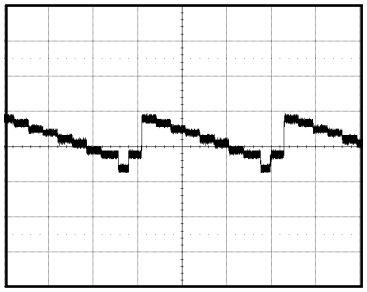
⑮

**NOTE:** The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

# WAVEFORMS

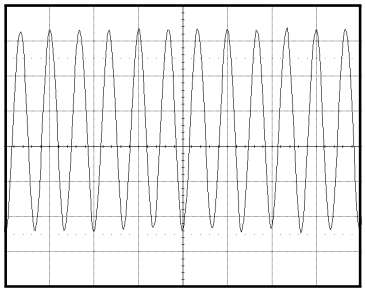
20µs
500mV

16



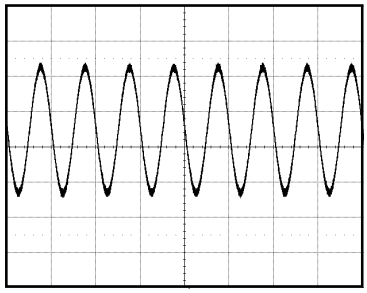
20µs
500mV

21



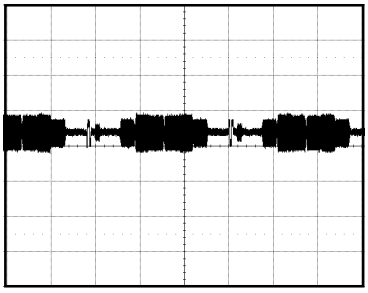
1.0ms
1.0V

26



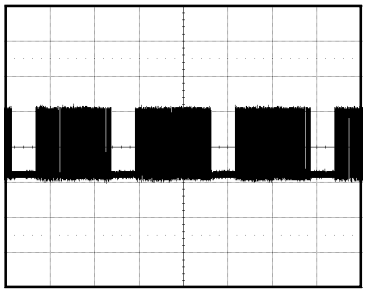
20µs
500mV

17



10µs
2.0V

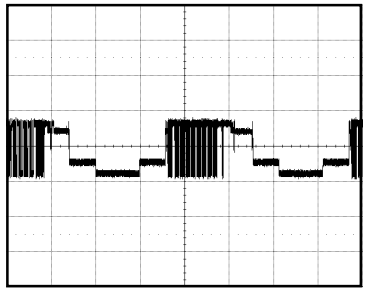
22



ADC

5µs
500mV

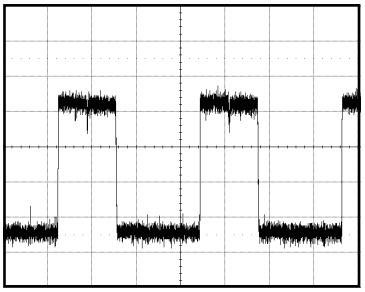
27



ADC

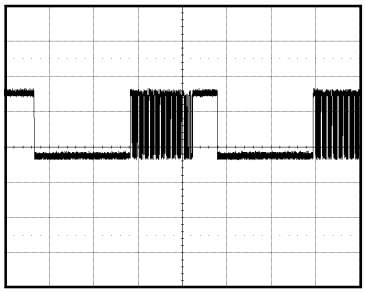
20µs
200mV

18



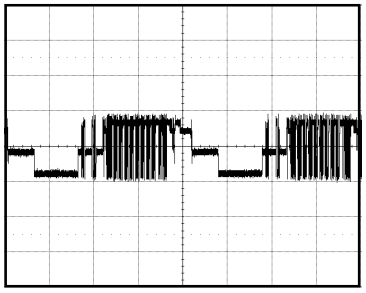
5µs
2.0V

23



5µs
500mV

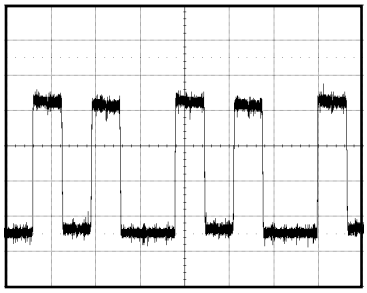
28



LVDS

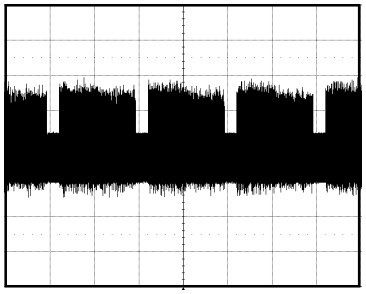
20µs
200mV

19



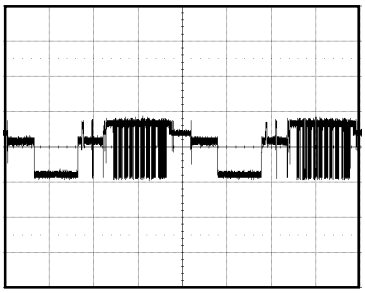
10ms
100mV

24



5µs
500mV

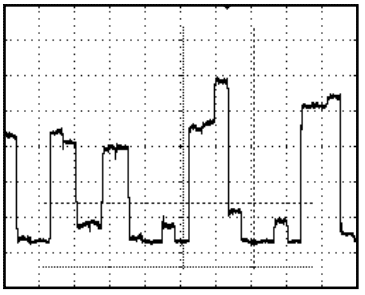
29



JACK

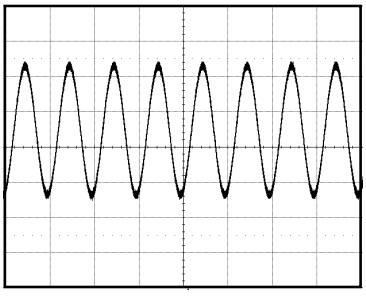
20µs
200mV

20



1.0ms
1.0V

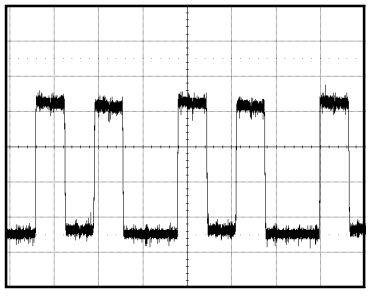
25



INTERFACE_HDMI IC

20µs
1.0V

30

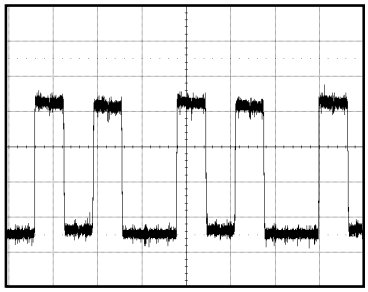


**NOTE:** The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

# WAVEFORMS

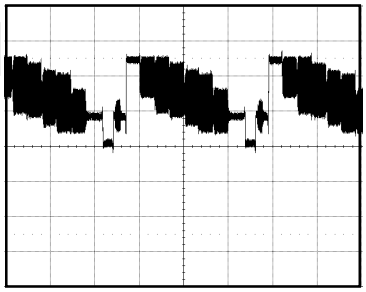
20µs
1.0V

(31)



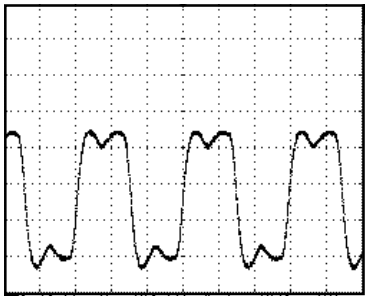
20µs
1.0V

(36)



20ns
1.0V

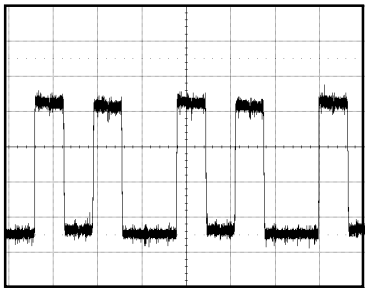
(53)



## ASIC

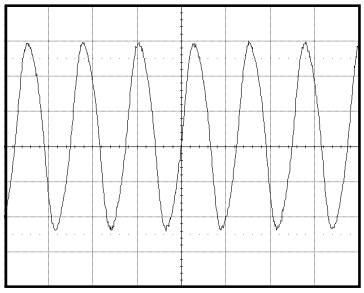
20µs
1.0V

(32)



10ns
50mV

(37)



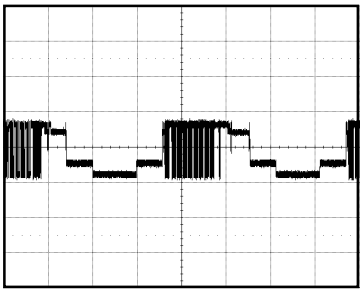
200ns
1.0V

(54)

## AV OUT

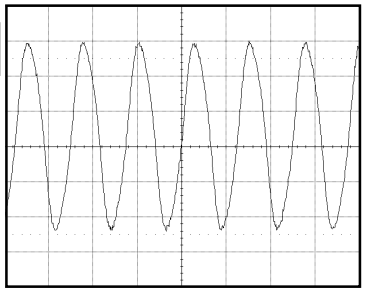
5µs
2.0V

(33)



20ns
50mV

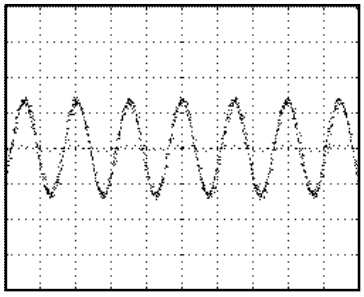
(38)



## MEMORY

5ns
500mV

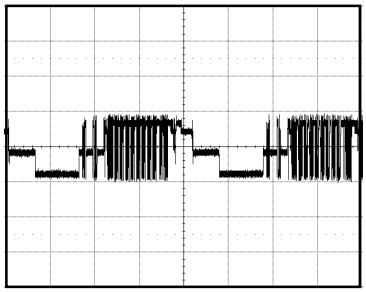
(55)



## MPEG/MICON/DSP

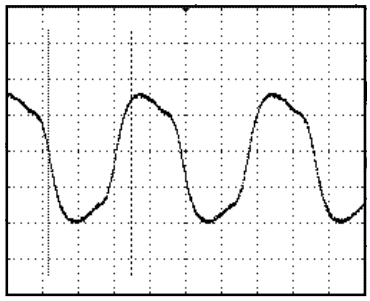
5µs
2.0V

(34)



10ns
100mV

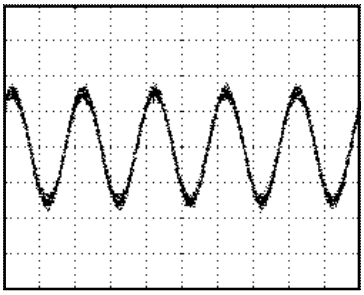
(51)



## AUDIO/VIDEO

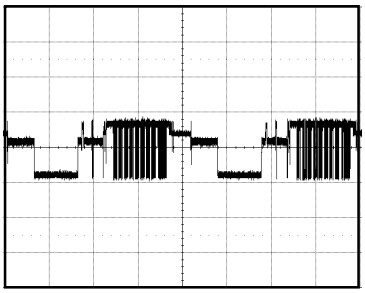
500µs
500mV

(56)



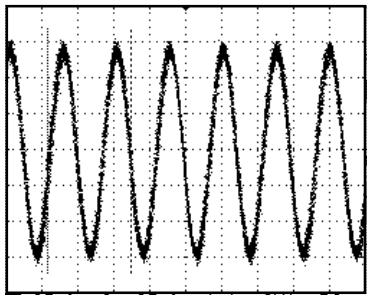
5µs
2.0V

(35)



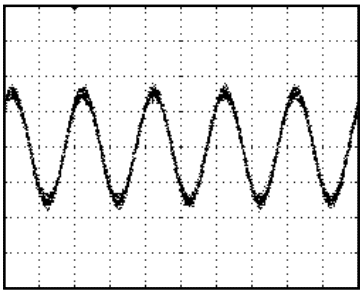
5ns
20mV

(52)



500µs
500mV

(57)

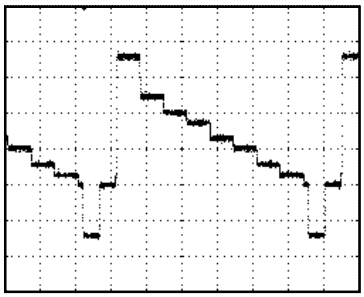


**NOTE:** The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

# WAVEFORMS

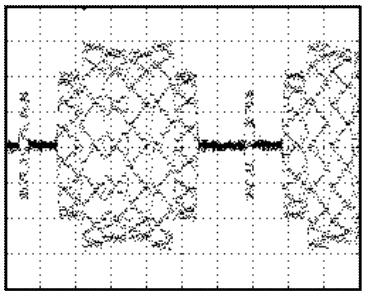
10µs
200mV

59



10µs
200mV

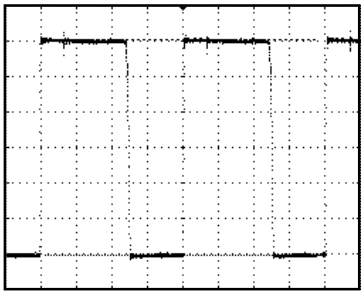
60



## REGULATOR 2

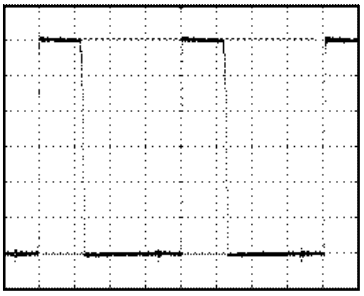
2µs
2.0V

61



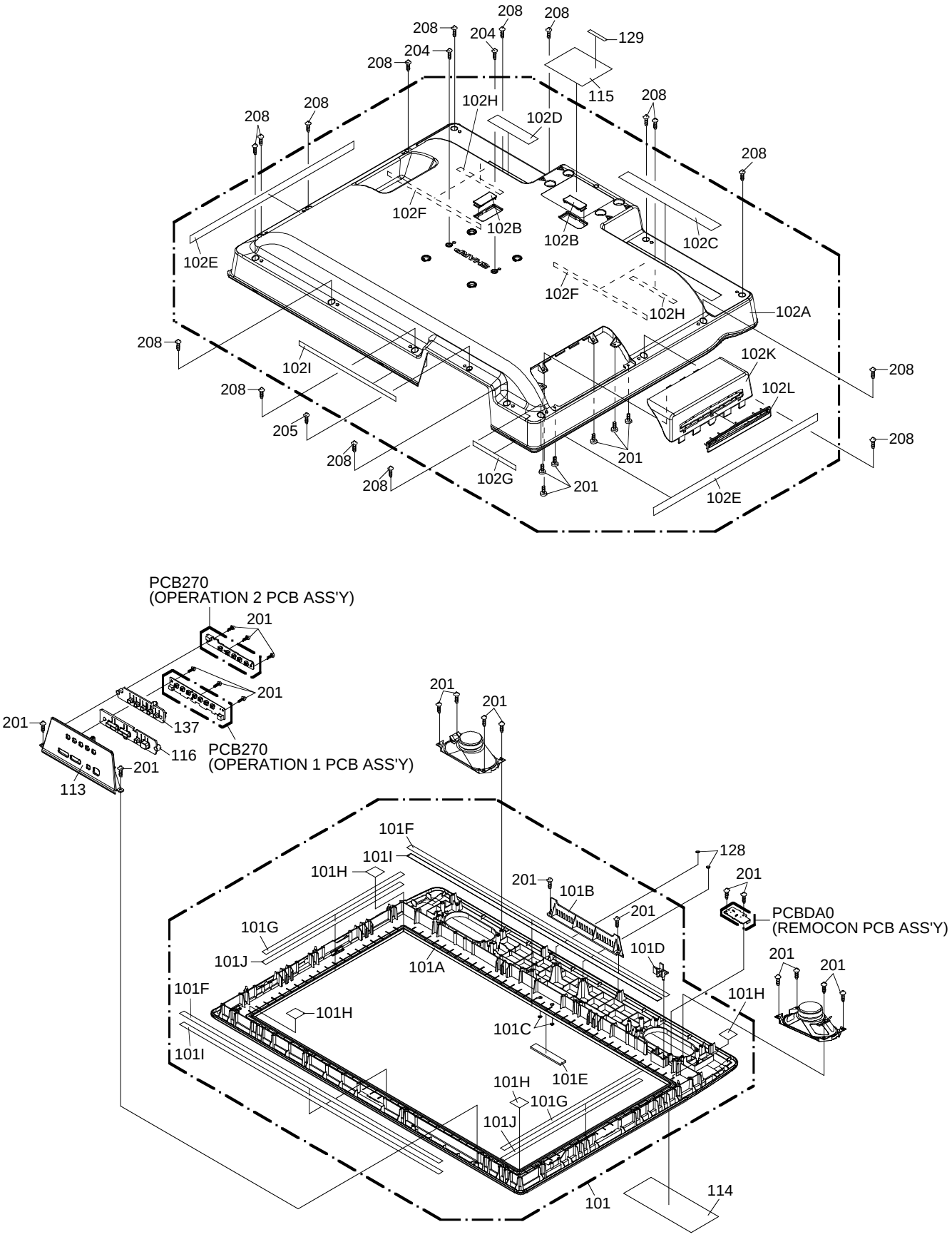
2µs
2.0V

62

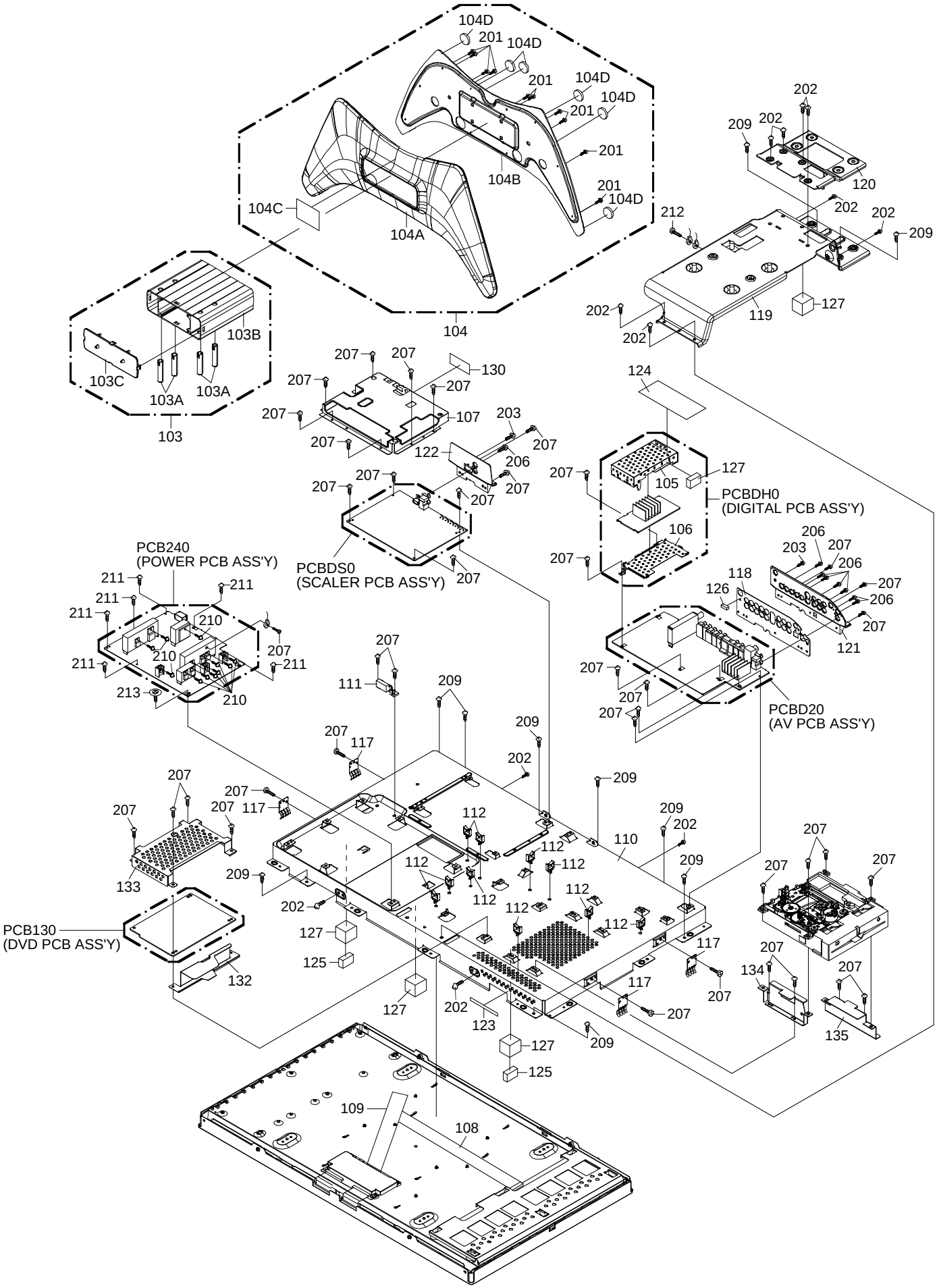


**NOTE:** The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

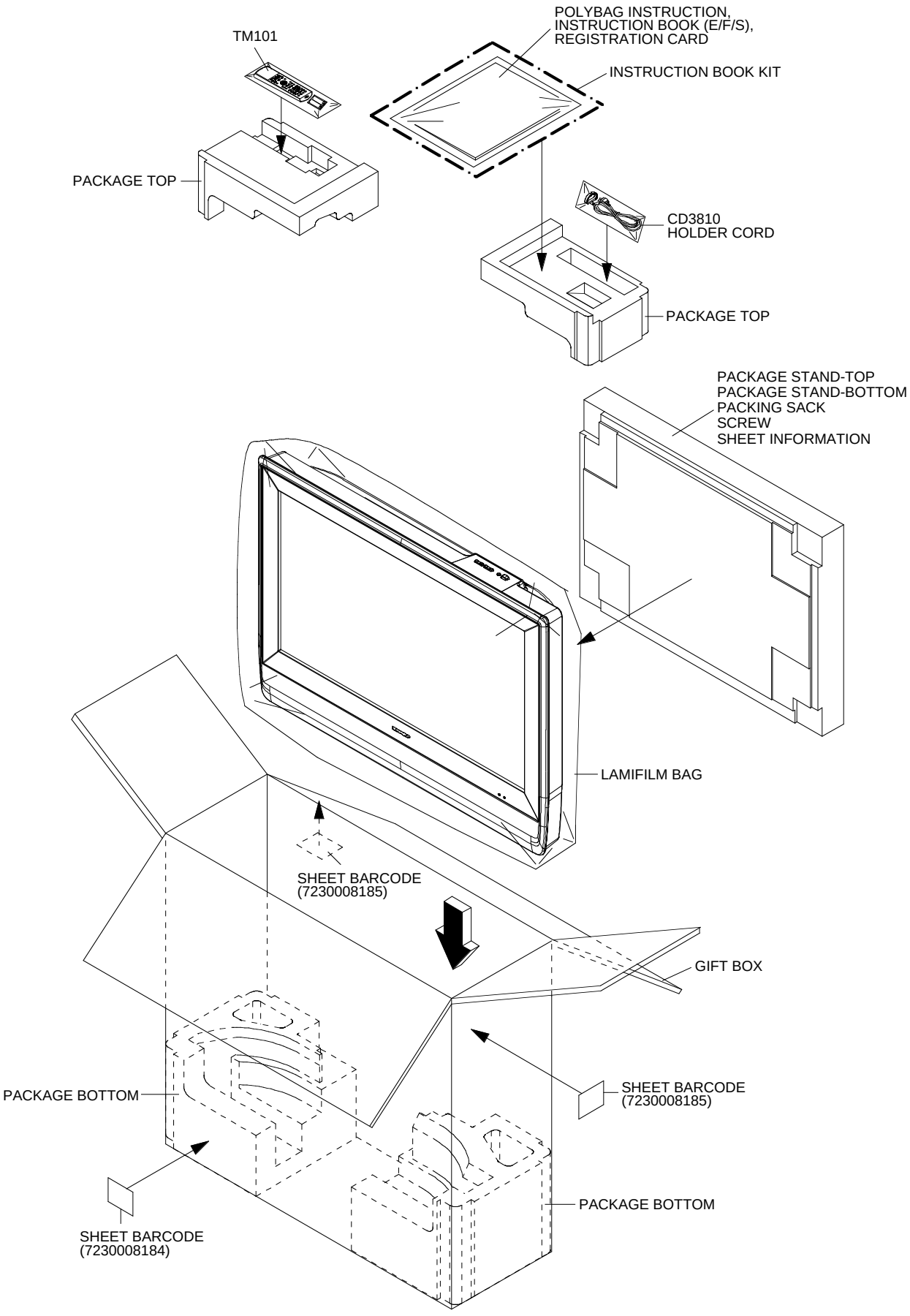
# MECHANICAL EXPLODED VIEW



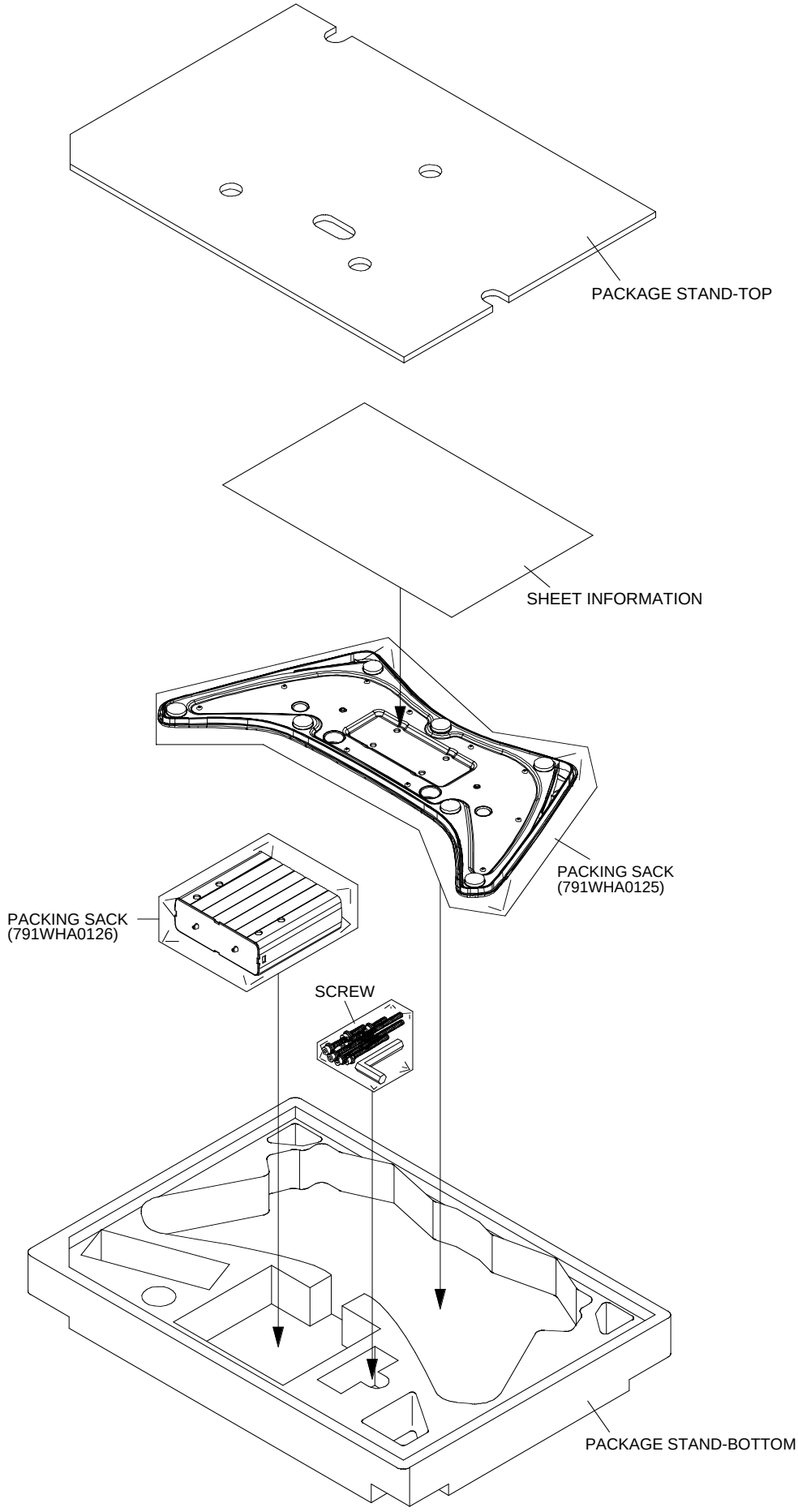
# MECHANICAL EXPLODED VIEW



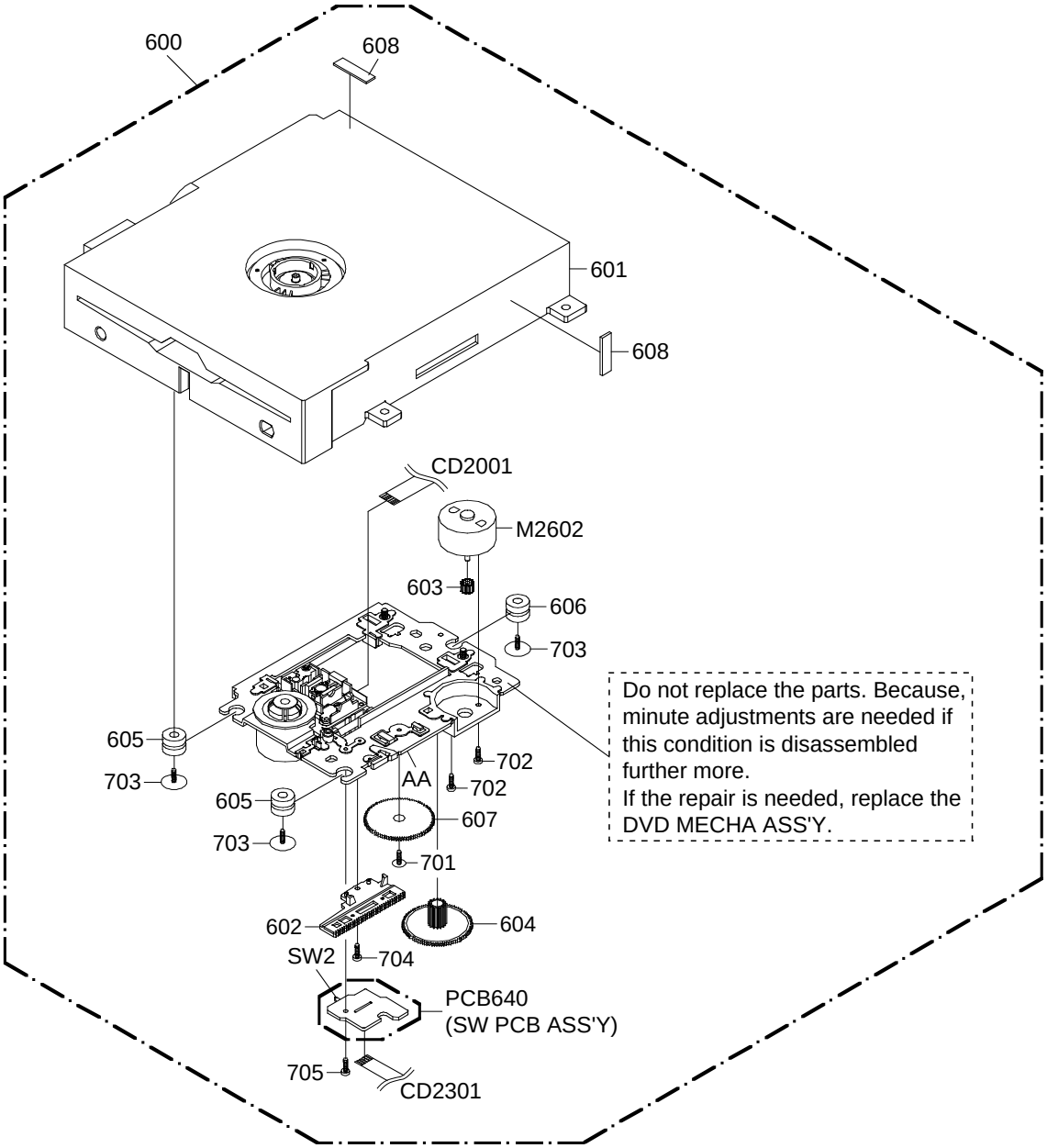
# MECHANICAL EXPLODED VIEW
# (PACKING DIAGRAM)



# MECHANICAL EXPLODED VIEW
# (PACKING DIAGRAM)



# DVD DECK EXPLODED VIEW




| CLASS | PART NO. | PART NAME | MARK |
|---|---|---|---|
| GREASE | Y315061000 | G-555G | AA |

**NOTE:** Applying positions AA for the grease are displayed for this section.
Check if the correct grease is applied for each position.

# MECHANICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | REF. NO. | PART NO. | DESCRIPTION | |
|---|---|---|---|---|---|---|---|
| 101 | 7A701A718A | FRONT CABI ASS'Y | | 201 | 8110630A0U | SCREW TAP TITE(P) BRAZIER | 3x10 |
| 101A | 701WPJ1461 | CABINET,FRONT | | 202 | 810A14080U | SCREW WASHER(A) | M4x8 |
| 101B | 702WPB0109 | COVER,STAND | | 203 | 810213080S | SCREW,PAN | M3x8 |
| 101C | 83SPN2000W | PUSH NUT | | 204 | 810223080S | SCREW,BIND | M3x8 |
| 101D | 713WPA0393 | GLASS,LED | | 205 | 8110630A0S | SCREW TAP TITE(P) BRAZIER | 3x10 |
| 101E | 7235270018 | BADGE,BRAND | | 206 | 810923080S | SCREW TAP TITE(B) BIND | 3x8 |
| 101F | 800WQ0A124 | FELT SHEET | 18x600xT1.0 | 207 | 810923080U | SCREW TAP TITE(B) BIND | 3x8 |
| 101G | 800WQ0A125 | FELT SHEET | 18x310xT1.0 | 208 | 8110230A4S | SCREW,TAP TITE(P) BIND | 3x14 |
| 101H | 800WQ0A128 | FELT SHEET | 25x25xT0.5 | 209 | 8117540A2U | SCREW,TAPPING(B0) TRUSS | 4x12 |
| 101I | 800WQ0A126 | FELT SHEET | 18x600xT0.5 | | | | |
| 101J | 800WQ0A127 | FELT SHEET | 18x310xT0.5 | 210 | 8109I30A0U | SCREW TAP TITE(B) WH7 | 3x10 |
| | | | | 211 | 8109D30A0U | SCREW,TAP TITE(B) WH8 | 3x10 |
| 102 | 7A7020086A | BACK,CABI ASS'Y | | 212 | 810A13080U | SCREW WASHER(A) | M3x8 |
| 102A | 702WPB0112 | CABINET,BACK | | 213 | 8159130A0U | SCREW TAPPING(B) WASHER12 PAN | 3x10 |
| 102B | 706WPB0009 | COVER,CONNECTOR | | | | | |
| 102C | 7230008130 | SHEET,JACK-1 | | --- | 7230008184 | SHEET BARCODE | |
| 102D | 7230008131 | SHEET,JACK-2 | | --- | 7230008185 | SHEET BARCODE | |
| 102E | 800WQ0A049 | FELT,SHEET | | --- | 7290000175 | SHEET,INFORMATION | |
| 102F | 800WQ0A110 | FELT SHEET | | --- | 774WPA0010 | HOLDER,CORD | |
| 102G | 800WQ00095 | FELT,SHEET | | --- | 791WHA0125 | PACKING SACK | |
| 102H | 800WQ00103 | FELT,SHEET | 9x250xT0.3 | --- | 791WHA0126 | PACKING SACK | |
| 102I | 800WQ00112 | FELT SHEET | 9x390xT0.3 | --- | 791WHA0130 | LAMIFILM BAG | |
| 102J | 800WQ00105 | FELT SHEET | | --- | 792WHA0660 | PACKAGE,STAND-TOP | |
| 102K | 771WPB0071 | PANEL,SIDE | | --- | 792WHA0661 | PACKAGE,STAND-BOTTOM | |
| 102L | 771WPB0081 | SLOT,DVD | | --- | 792WHA0664 | PACKAGE,TOP | |
| | | | | --- | 792WHA0665 | PACKAGE,BOTTOM | |
| 103 | 7A7640004A | FRAME,STAND ASS'Y | | --- | 793WCDD166 | GIFT BOX | |
| 103A | 701WPA1423 | HOLDER,STAND | | --- | 890CDAIA24 | SCREW | |
| 103B | 761WEB0004 | FRAME,STAND | | --- | A5X504G975 | INSTRUCTION BOOK KIT | |
| 103C | 761WPA0436 | COVER,STAND FRAME | | --- | J3Y00417A | REGISTRATION CARD(SHARP) | |
| | | | | --- | J5X50431A | INSTRUCTION BOOK(E/F/S) | |
| 104 | 7A7040015A | STAND ASS'Y | | --- | JA4ND200 | POLYBAG INSTRUCTION(RED CAUTION) | |
| 104A | 704WPB0021 | STAND | | | | | |
| 104B | 761WSB0039 | ANGLE,STAND | | | | | |
| 104C | 7290000172 | SHEET,CAUTION | | | | | |
| 104D | 800WFA0063 | CUSHION,LEG | | | | | |
| | | | | | | | |
| 105 | 752WSA0555 | SHIELD,DIGITAL | | | | | |
| 106 | 752WSA0556 | DIGITAL SHIELD,COVER | | | | | |
| 107 | 752WSA0575 | SHIELD,SCALER | | | | | |
| 108 | 753WEA0030 | SHEET,CU | | | | | |
| 109 | 753WEA0035 | SHEET,CU | | | | | |
| | | | | | | | |
| 110 | 761WSA0374 | COVER,LCD | | | | | |
| 111 | 771WPA0343 | HOLDER,AC-INLET | | | | | |
| 112 | 899CH16000 | HOLDER,WIRE | | | | | |
| 113 | 711WPJ0078 | PLATE,BUTTON | | | | | |
| 114 | 7230008201 | POP LABEL | | | | | |
| 115 | 723527A012 | SHEET RATING | | | | | |
| 116 | 735WPB0336 | BUTTON,FRAME | | | | | |
| 117 | 744WUA0022 | SPRING,EARTH | | | | | |
| 118 | 752WSA0566 | SHIELD,JACK | | | | | |
| 119 | 761WSA0356 | ANGLE,BACK-1 | | | | | |
| | | | | | | | |
| 120 | 761WSA0357 | ANGLE,BACK-2 | | | | | |
| 121 | 771WPA0347 | PLATE,JACK-1 | | | | | |
| 122 | 771WPA0348 | PLATE,JACK-2 | | | | | |
| 123 | 7240001125 | SHEET PC | | | | | |
| 124 | 890MP2401A | TAPE | 50x35 | | | | |
| 125 | 8965TS202A | CUSHION 65TS20-20 | 20x15x12 | | | | |
| 126 | 8965TS0415 | CUSHION 65TS4-2 | 15x50x16 | | | | |
| 127 | 8965TS1017 | CUSHION 65TS10-10 | 17.5x20x14 | | | | |
| 128 | 800WB00004 | FIBER WASHER | 7x3.2xT0.5 | | | | |
| 129 | 7220001226 | SHEET SERIAL | | | | | |
| | | | | | | | |
| 130 | 890MP2401E | TAPE | 50x12 | | | | |
| 131 | 726000A073 | SHEET CAUTION | | | | | |
| 132 | 752WSA0595 | SHIELD FFC | | | | | |
| 133 | 752WSA0607 | SHIELD MPEG | | | | | |
| 134 | 761WSA0364 | ANGLE,DECK-L | | | | | |
| 135 | 761WSA0365 | ANGLE,DECK-R | | | | | |
| 136 | 8965TS1060 | CUSHION W10/H10/L60 | | | | | |
| 137 | 735WPB0337 | BUTTON,FRAME-DVD | | | | | |
| 138 | 7240001124 | SHEET PC | | | | | |

# DVD DECK REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | |
|---|---|---|---|
| ⚠ 600 | A5X002C650 | DVD MECHA ASS'Y | A5X002C650 |
| 601 | 92SBB0033A | LOADER SUB ASS'Y | DLM1D29-31 |
| 602 | 92AAA0017A | FEED RACK ASS'Y | |
| 603 | 92P100088A | GEAR,MOTOR | |
| 604 | 92P100117A | GEAR,MIDDLE | |
| 605 | 92P200017A | INSULATOR, F | |
| 606 | 92P200018A | INSULATOR, R | |
| 607 | 92P100116A | GEAR,FEED | |
| 608 | 800WFAA008 | CUSHION C | |
| 701 | 92P700007A | SCREW,GEAR FEED | |
| 702 | 814011723U | SCREW,PAN | M1.7x2.3 P3 |
| 703 | 816112080U | SEMS.TAP TITE(P) PAN W10 | 2x8 |
| 704 | 813381750U | SCREW,T-TITE(B)CAMERA PAN | M1.7x5.0 P3 |
| 705 | 811022080U | SCREW,TAP TITE(P) BIND | 2x8 |
| CD2001 | 122J4O1603 | CORD JUMPER | 127000-2933 |
| CD2301 | 122H062102 | CORD JUMPER | 2H062102 |
| ⚠ M2602 | 1515S98004 | MOTOR | BCZ3B05 |
| PCB640 | A5X002C640 | PCB ASS'Y | DED020A |
| SW2 | 0500101036 | PUSH SWITCH | ESE22MH22 |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | **DVD PCB ASS'Y** | | |
| | | *** PCB *** | | |
| PCB130 | A5X504G130 | DVD PCB ASS'Y | DMF066A | |
| | | *** DIODES *** | | |
| D2303 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| D2304 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| D3001 | DD7RB051L0 | DIODE,SCHOTTKY | RB051L-40_TE25 | |
| D3002 | DD7RB051L0 | DIODE,SCHOTTKY | RB051L-40_TE25 | |
| D3003 | DD7RB051L0 | DIODE,SCHOTTKY | RB051L-40_TE25 | |
| D4002 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| D4003 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| D4005 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| D4008 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| D8509 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| D8510 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| | | *** ICS *** | | |
| ⚠IC2301 | I03FV65650 | IC | LA6565VR-TLM-E | |
| ⚠IC3001 | I07F097430 | IC | BA9743AFV-E2 | |
| ⚠IC3002 | I0GF91ZPH0 | IC | PQ070XZ01ZPH | |
| ⚠IC3003 | I1KF98D050 | IC | KIA78D05F | |
| IC4001 | ICQK068621 | IC | ZR36862PQCG-B | |
| IC4007 | ICMJ016017 | IC | SST39VF1601-70-4C-EKE | |
| IC4009 | IF9J0161A7 | IC | M12L16161A-7TG | |
| IC8502 | I17F017530 | IC | PCM1753DBQR | |
| | | *** TRANSISTORS *** | | |
| Q2301 | T67J1036K0 | TRANSISTOR,SILICON | 2SA1036KT146 | |
| Q2302 | T67J048TL0 | TRANSISTOR,SILICON | 2SA2048TL | |
| Q2303 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q2304 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q2305 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q3001 | TAAA01664Y | TRANSISTOR,SILICON | KTA1664-Y-RTF/P | |
| Q3001 | T77J011320 | TRANSISTOR,SILICON | 2SB1132T100(Q,R) | or |
| Q3002 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| Q3003 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q3004 | T67J1036K0 | TRANSISTOR,SILICON | 2SA1036KT146 | |
| Q3005 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q3006 | T67J1036K0 | TRANSISTOR,SILICON | 2SA1036KT146 | |
| ⚠Q3007 | TJ5M081090 | FET | TPC8109(T2LORION_Q) | |
| ⚠Q3008 | TJ5M081090 | FET | TPC8109(T2LORION_Q) | |
| | | *** COILS *** | | |
| B2301 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B2302 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B2304 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B2305 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B3001 | 024BC5121J | CORE,BEADS | BLM18PG121SN1D | |
| B4001 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4002 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4003 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4004 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4005 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4006 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4007 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4008 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4009 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4010 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4011 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4012 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4013 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4014 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4015 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4016 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4018 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B8503 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| L3001 | 021404101L | COIL | 1A 100 UH | |
| L3002 | 021404101L | COIL | 1A 100 UH | |
| L3003 | 02167F2R2J | COIL | 2.2 UH | |
| L3004 | 02167E220K | COIL | R7 22 UH | |
| L8502 | 02167F1R0K | COIL | 1 UH | |
| L8503 | 02167F1R0K | COIL | 1 UH | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** CONNECTORS *** | | |
| CP2301 | 069KYOT159 | CONNECTOR PCB SIDE | LD07T2-24ND-03 | |
| CP2302 | 069EV53030 | CONNECTOR PCB SIDE | 00_6232_005_006_800+ | |
| CP2303 | 069EV63030 | CONNECTOR PCB SIDE | 00_6232_006_006_800+ | |
| | | *** CRYSTAL & CERAMIC OSCILLATORS *** | | |
| X4001 | 100GT02720 | CRYSTAL | B27000C005 | |
| | | *** OTHERS *** | | |
| ⚠CD501 | 06CU244202 | CORD,CONNECTOR | CU244202 | |
| CD702 | 06CU263502 | CORD,CONNECTOR | CU263502 | |
| CD703 | 06CU292601 | CORD,CONNECTOR | CU292601 | |
| ⚠F3001 | 083LA05007 | FUSE | 1206FA5A-T | |
| SH8501 | 126R000038 | TERMINAL PIN | TP00370-21 | |
| | | **POWER PCB ASS'Y** | | |
| | | *** PCB *** | | |
| PCB240 | A5X504G240 | POWER PCB ASS'Y | CEF171A | |
| | | *** RESISTORS *** | | |
| R524 | R3X181R27J | R,METAL OXIDE | 0.27 OHM 1W | |
| R527 | R3X181R27J | R,METAL OXIDE | 0.27 OHM 1W | |
| ⚠R529 | R63881R22J | R,FUSE | 0.22 OHM 1W | |
| ⚠R530 | R3X181R22J | R,METAL OXIDE | 0.22 OHM 1W | |
| ⚠R532 | R65584101J | R,FUSE | 100 OHM 1/4W | |
| ⚠R534 | R3X18A104J | R,METAL OXIDE | 100K OHM 2W | |
| ⚠R535 | R65584101J | R,FUSE | 100 OHM 1/4W | |
| ⚠R537 | R3X18A104J | R,METAL OXIDE | 100K OHM 2W | |
| ⚠R600 | R5X2AE010J | R,CEMENT | 1R0J 1 OHM 7W | |
| | | *** CAPACITORS *** | | |
| C503 | P2122B224M | CMP | 0.22 UF 275V ECQUL | |
| ⚠C506 | CD39E0ME3M | CC | 0.0015UF 250V | |
| ⚠C507 | P2122B104M | CMP | 0.1 UF 275V ECQUL | |
| C509 | P2122B224M | CMP | 0.22 UF 275V ECQUL | |
| ⚠C510 | E71LFC591D | CE | 590 UF 200V | |
| ⚠C511 | E61DFC101D | CE | 100 UF 200V | |
| C513 | C0PLRR7G3K | CC | 0.0018 UF 2KV R | |
| C515 | C03L0R7U2K | CC | 680 PF 2KV R | |
| C515 | C0PLRR7U2K | CC | 680 PF 2KV R | or |
| C521 | C03L0R7H2K | CC | 220 PF 2KV R | |
| C523 | P411F4393J | CMPP | 0.039 UF 400V ECWF | |
| C527 | P411F4393J | CMPP | 0.039 UF 400V ECWF | |
| ⚠C529 | CD39B0MQ2K | CC | 470 PF 250V | |
| ⚠C530 | CD39B0MH2K | CC | 220 PF 250V | |
| ⚠C531 | C03L0R7H2K | CC | 220 PF 2KV R | |
| C532 | C03L0R7H2K | CC | 220 PF 2KV R | |
| ⚠C535 | E61FF3102D | CE | 1000 UF 25V | |
| C536 | C03L0R7H2K | CC | 220 PF 2KV R | |
| ⚠C537 | E61FF1222D | CE | 2200 UF 10V | |
| ⚠C539 | E61FF4122D | CE | 1200 UF 35V | |
| ⚠C540 | E61FF3102D | CE | 1000 UF 25V | |
| ⚠C542 | E61FF4122D | CE | 1200 UF 35V | |
| ⚠C543 | E61FF2102D | CE | 1000 UF 16V | |
| ⚠C545 | E61FF2102D | CE | 1000 UF 16V | |
| ⚠C548 | E5EZU2221M | CE | 220 UF 16V | |
| ⚠C549 | E61FF4122D | CE | 1200 UF 35V | |
| ⚠C583 | E61DFC101D | CE | 100 UF 200V | |
| | | *** DIODES *** | | |
| D501 | D4AT01H3E0 | DIODE,RECTIFIER | 1H3-E | |
| D501 | D28X0ERB20 | DIODE,RECTIFIER | 10ERB20-TA2B5 | or |
| D502 | D28T21DQN9 | DIODE,SCHOTTKY | 21DQ09N-TA2B1 | |
| D503 | D6CE24110A | DIODE,VARISTA | ENE241D-10A-Q6 | |
| ⚠D504 | DOU002720M | DIODE,VARISTA | DSS-272M-S00B | |
| ⚠D505 | D6E027110A | DIODE,VARISTA | ENE271D-10A | |
| D506 | D97U02R21B | DIODE,ZENER | MTZJ2.2B T-77 | |
| ⚠D507 | D2B0BV6080 | DIODE,BRIDGE | RBV-608 | |
| ⚠D508 | D2WTRM11C0 | DIODE,SILICON | RM11C-EIC | |
| ⚠D509 | D2WTRM11C0 | DIODE,SILICON | RM11C-EIC | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** DIODES *** | | |
| ⚠D510 | D2WTRM11C0 | DIODE,SILICON | RM11C-EIC | |
| ⚠D511 | D2WTRM11C0 | DIODE,SILICON | RM11C-EIC | |
| D512 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D513 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D514 | D97U05R61B | DIODE,ZENER | MTZJ5.6B T-77 | |
| D515 | D97U06R21B | DIODE,ZENER | MTZJ6.2B T-77 | |
| D516 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| ⚠D517 | D97U06R21B | DIODE,ZENER | MTZJ6.2B T-77 | |
| D518 | D2B0RU3AM0 | DIODE,SILICON | RU3AM | |
| D519 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D520 | D2BXARS010 | DIODE,SILICON | SARS01-V1 | |
| D521 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D522 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D523 | D4AT01H3E0 | DIODE,RECTIFIER | 1H3-E | |
| D523 | D28T0ERB20 | DIODE,RECTIFIER | 10ERB20-TA1B2 | or |
| D524 | D4AT01H3E0 | DIODE,RECTIFIER | 1H3-E | |
| D524 | D28T0ERB20 | DIODE,RECTIFIER | 10ERB20-TA1B2 | or |
| D525 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D526 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D527 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D528 | D2BAMX22S0 | DIODE,SCHOTTKY | FMX-22S | |
| D529 | D4AT01H3E0 | DIODE,RECTIFIER | 1H3-E | |
| D529 | D28T0ERB20 | DIODE,RECTIFIER | 10ERB20-TA1B2 | or |
| ⚠D530 | D2BAMX22S0 | DIODE,SCHOTTKY | FMX-22S | |
| ⚠D531 | D2BAMX22S0 | DIODE,SCHOTTKY | FMX-22S | |
| ⚠D532 | D27A85T400 | DIODE,SCHOTTKY | RB085T-40 | |
| ⚠D533 | D2CA2C15R0 | DIODE,SCHOTTKY BARRIER | YG862C15R | |
| D534 | D97U02701B | DIODE,ZENER | MTZJ27B T-77 | |
| D535 | D28T21DQN9 | DIODE,SCHOTTKY | 21DQ09N-TA2B1 | |
| D538 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| D539 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D540 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D541 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D542 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D543 | D2LKSR3400 | DIODE,SCHOTTKY | SR340-004 | |
| D543 | D2LKB340F0 | DIODE,SCHOTTKY | SB340FL-6737 | or |
| D545 | D2WXN40050 | DIODE,SILICON | 1N4005-EIC | |
| ⚠IC511 | 000220002W | PHOTO COUPLER | PS2561AL1-1-V(W) | |
| ⚠IC512 | 000220002W | PHOTO COUPLER | PS2561AL1-1-V(W) | |
| | | *** ICS *** | | |
| ⚠IC501 | I1KJ9A431A | IC | KIA431A-AT | |
| IC502 | I0BT0X6730 | IC | STR-X6737 | |
| ⚠IC503 | I2BT0W6730 | IC | STR-W6735 | |
| ⚠IC504 | I1KJ9A431A | IC | KIA431A-AT | |
| ⚠IC505 | I07A078100 | IC | BA7810T-V5 | |
| IC506 | I07T0BC0W0 | IC | BA00BC0WCP-V5E2 | |
| ⚠IC508 | I03T057740 | IC | LA5774-E | |
| IC509 | I1LF010150 | IC | AL1015 | |
| ⚠IC510 | I0GA9090R0 | IC | PQ090RDA1SZH | |
| | | *** TRANSISTORS *** | | |
| Q501 | TCATC31980 | TRANSISTOR,SILICON | KTC3198-AT(Y,GR) | |
| Q502 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| Q503 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q504 | TJ7M50P030 | FET | RSS050P03_TB | |
| Q505 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| Q507 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| Q508 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q511 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q512 | T0300J6500 | FET | 2SJ650 | |
| Q513 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q514 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| Q515 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| | | *** COILS *** | | |
| B501 | 024HT03563 | CORE,BEADS | W4BRH3.5X6X1.0X2 | |
| B502 | 024HT03564 | CORE,BEADS | W4BRH3.5X6X1.0 | |
| B505 | 024BC5121J | CORE,BEADS | BLM18PG121SN1D | |
| B506 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B507 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B508 | 024BC5121J | CORE,BEADS | BLM18PG121SN1D | |
| L501 | 02167E220K | COIL | R7 22 UH | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** COILS *** | | |
| L502 | 02186I6R8L | COIL | 6.8 UH | |
| L503 | 02186I6R8L | COIL | 6.8 UH | |
| L504 | 021W0G330M | COIL | 33 UH | |
| L505 | 021W0G100M | COIL | 10 UH | |
| ⚠L506 | 029X000144 | COIL,LINE FILTER | SS30V-R250092 | |
| ⚠L507 | 029X000144 | COIL,LINE FILTER | SS30V-R250092 | |
| | | *** TRANSFORMERS *** | | |
| ⚠T501 | 0481350964 | TRANSFORMER,SWITCHING | 81350964 | |
| ⚠T502 | 0481420774 | TRANSFORMER,SWITCHING | 81420774 | |
| | | *** CONNECTORS *** | | |
| CP504 | 069D01001A | CONNECTOR PCB SIDE | 003P-2100 | |
| CP505 | 069D01001A | CONNECTOR PCB SIDE | 003P-2100 | |
| CP506 | 069S2E0629 | CONNECTOR PCB SIDE | A2001WV2-14P | |
| CP507 | 069S170019 | CONNECTOR PCB SIDE | A2501WV2-7P | |
| CP508 | 069S270629 | CONNECTOR PCB SIDE | A2001WV2-7P | |
| CP509 | 069S240629 | CONNECTOR PCB SIDE | A2001WV2-4P | |
| CP510 | 069S120019 | CONNECTOR PCB SIDE | A2501WV2-2P | |
| CP511 | 069S1C0019 | CONNECTOR PCB SIDE | A2501WV2-12P | |
| CP512 | 069S140019 | CONNECTOR PCB SIDE | A2501WV2-4P | |
| CP513 | 069D01001A | CONNECTOR PCB SIDE | 003P-2100 | |
| CP514 | 069W01001A | CONNECTOR PCB SIDE | 003P-2100 | |
| | | *** FUSES *** | | |
| ⚠F501 | 081PC6R305 | FUSE | 51MS063L | |
| FH501 | 06710T0009 | HOLDER,FUSE | EYF-52BCY | |
| FH502 | 06710T0009 | HOLDER,FUSE | EYF-52BCY | |
| | | *** RELAYS *** | | |
| ⚠RY501 | 0560V50119 | RELAY | ALKS329 A60 | |
| ⚠RY501 | 0560V50118 | RELAY | ALKS329 | or |
| | | *** THERMISTER *** | | |
| ⚠TH501 | DSRFSP3R0L | THERMISTOR | NTPAN3R0LDKB0 | |
| | | *** OTHERS *** | | |
| CD507 | 06CD010701 | CORD,CONNECTOR | CD010701 | |
| CD508 | 06CD010701 | CORD,CONNECTOR | CD010701 | |
| EL2401 | 124116281A | EYE LET | XRY16X28BD | |
| EL2402 | 124120301A | EYE LET | XRY20X30BD | |
| ⚠F502 | 0835A07005 | MICRO FUSE | 20N_7000FSW | |
| J502 | 064Q1A0003 | JACK,AC | CCT2302-0911 | |
| SH501 | 126R000036 | TERMINAL PIN | TP00385-21 | |
| SH502 | 126R000036 | TERMINAL PIN | TP00385-21 | |
| SH503 | 126R000036 | TERMINAL PIN | TP00385-21 | |
| SH504 | 126R000036 | TERMINAL PIN | TP00385-21 | |
| | | **OPERATION PCB ASS'Y** | | |
| | | *** PCB *** | | |
| PCB270 | A5X504G270 | OPERATION PCB ASS'Y | CEF185A | |
| | | *** SWITCHES *** | | |
| SW2201 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2202 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2203 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2204 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2205 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2206 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| | | *** CONNECTORS *** | | |
| CP2203 | 069S230639 | CONNECTOR PCB SIDE | A2001WR2-3P | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** OTHERS *** | | |
| CD2251 | 06CU220702 | CORD,CONNECTOR | CU220702 | |
| | | **OPERATION 2 PCB ASS'Y** | | |
| | | *** PCB *** | | |
| PCB280 | A5X504G280 | OPERATION 2 PCB ASS'Y | DEF092A | |
| | | *** SWITCHES *** | | |
| SW2251 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2252 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2253 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2254 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| SW2255 | 0504101T34 | SWITCH,TACT | EVQ21505R | |
| | | *** CONNECTORS *** | | |
| CP2251 | 069S220639 | CONNECTOR PCB SIDE | A2001WR2-2P | |
| | | **AV PCB ASS'Y** | | |
| | | *** PCB *** | | |
| PCBD20 | A5X504GD20 | AV PCB ASS'Y | CMF090A | |
| | | *** CAPACITORS *** | | |
| C340 | E61FF3821D | CE | 820 UF 25V | |
| C342 | E61FF3821D | CE | 820 UF 25V | |
| C3801 | E61FF2102D | CE | 1000 UF 16V | |
| C3802 | E61FF2102D | CE | 1000 UF 16V | |
| C3803 | E61FF2102D | CE | 1000 UF 16V | |
| C3810 | E61FF2102D | CE | 1000 UF 16V | |
| C3825 | E61FF3821D | CE | 820 UF 25V | |
| C3826 | E61FF3821D | CE | 820 UF 25V | |
| | | *** DIODES *** | | |
| D302 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D303 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D304 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D305 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D901 | D97U05R61B | DIODE,ZENER | MTZJ5.6B T-77 | |
| D3801 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D3802 | D2LXSR2400 | DIODE,SCHOTTKY | SR240-F | |
| D3802 | D28T21DQN4 | DIODE,SCHOTTKY | 21DQ04N-TA2B1 | or |
| D3804 | D4AT01H3E0 | DIODE,RECTIFIER | 1H3-E | |
| D3804 | D28T0ERB20 | DIODE,RECTIFIER | 10ERB20-TA1B2 | or |
| D3805 | D4AT01H3E0 | DIODE,RECTIFIER | 1H3-E | |
| D3805 | D28T0ERB20 | DIODE,RECTIFIER | 10ERB20-TA1B2 | or |
| D3811 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D3812 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D4202 | DE7RB8R22B | DIODE,ZENER | UDZS8.2B TE-17 | |
| D4203 | DE7RB8R22B | DIODE,ZENER | UDZS8.2B TE-17 | |
| D4206 | D97U08R21B | DIODE,ZENER | MTZJ8.2B T-77 | |
| D4207 | D97U08R21B | DIODE,ZENER | MTZJ8.2B T-77 | |
| D4208 | DE7RB8R22B | DIODE,ZENER | UDZS8.2B TE-17 | |
| D4209 | D1VT001330 | DIODE,SILICON | 1SS133T-77 | |
| D4210 | DE7RB8R22B | DIODE,ZENER | UDZS8.2B TE-17 | |
| | | *** ICS *** | | |
| ⚠IC301 | I1MFPA2020 | IC | TA2024-ASE | |
| IC904 | I19FF4440G | IC | MSP4440G-QA-C13-100 | |
| IC3801 | I1LF010100 | IC | AL1010 | |
| ⚠IC3804 | I0GA9XF010 | IC | PQ070XF01SZH | |
| IC3805 | I03D979950 | IC | LA7995M-TLM | |
| IC4201 | I01F05853B | IC | AN15853B-E1 | |
| IC4401 | I0QF025840 | IC | NJM2584AM(TE1) | |
| IC4405 | I5CJ031570 | IC | SN74LVC1G3157DCKR | |
| IC4406 | I0QJ045800 | IC | NJM4580M(TE1) | |
| IC5801 | I55J07W660 | IC | TC7W66FU(TE12L,F) | |
| | | *** TRANSISTORS *** | | |
| Q300 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q300 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** TRANSISTORS *** | | |
| Q301 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q301 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q302 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q302 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q901 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q901 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q902 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q902 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q3813 | TJ7M50P030 | FET | RSS050P03_TB | |
| Q4202 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4202 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q4203 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4203 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q4205 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4205 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q4206 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4207 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4207 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q4208 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q4208 | T27T030180 | FET | 2SK3018T106 | or |
| Q4209 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4209 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q4210 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q4210 | T27T030180 | FET | 2SK3018T106 | or |
| Q4231 | TPAAC05002 | COMPOUND TRANSISTOR | KRA103SRTK | |
| Q4231 | TPYJC05001 | COMPOUND TRANSISTOR | DTA124EKAT146 | or |
| Q4233 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| Q4401 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q4401 | T6RA015300 | TRANSISTOR,SILICON | 2SA1530A-T1 | or |
| Q4402 | TPAAB05001 | COMPOUND TRANSISTOR | KRA102SRTK | |
| Q4403 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| Q4404 | TNAAD05001 | COMPOUND TRANSISTOR | KRC104SRTK | |
| Q4404 | TNRAD05002 | COMPOUND TRANSISTOR | RT1N441C-T112-1 | or |
| Q4405 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4405 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q4406 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4406 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q4407 | TPAAA05001 | COMPOUND TRANSISTOR | KRA101SRTK | |
| Q4408 | TNAAC05002 | COMPOUND TRANSISTOR | KRC103SRTK | |
| Q4409 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q4409 | T6RA015300 | TRANSISTOR,SILICON | 2SA1530A-T1 | or |
| Q4410 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q4410 | T6RA015300 | TRANSISTOR,SILICON | 2SA1530A-T1 | or |
| Q5801 | TPAAA05001 | COMPOUND TRANSISTOR | KRA101SRTK | |
| Q5801 | TPRAA05002 | COMPOUND TRANSISTOR | RT1P431C-T112-1 | or |
| Q5802 | TNAAC05002 | COMPOUND TRANSISTOR | KRC103SRTK | |
| Q5802 | TNRAC05003 | COMPOUND TRANSISTOR | RT1N241C-T112-1 | or |
| Q5803 | T82A03841Q | TRANSISTOR,SILICON | 2SC3841-T1B_T63 | |
| Q5804 | T82A03841Q | TRANSISTOR,SILICON | 2SC3841-T1B_T63 | |
| Q5805 | T82A03841Q | TRANSISTOR,SILICON | 2SC3841-T1B_T63 | |
| | | *** COILS *** | | |
| B901 | 024BC5121J | CORE,BEADS | BLM18PG121SN1D | |
| B902 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B902 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B903 | 024BC5121J | CORE,BEADS | BLM18PG121SN1D | |
| B904 | 024HC51023 | CORE,BEADS | FCM1608KF-102T02 | |
| B904 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D | or |
| B906 | 024HC51023 | CORE,BEADS | FCM1608KF-102T02 | |
| B906 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D | or |
| B3801 | 024HT03553 | CORE,BEADS | W5RH3.5X5X1.0 | |
| B4202 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4202 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4203 | 024HT03553 | CORE,BEADS | W5RH3.5X5X1.0 | |
| B4214 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4214 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4215 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4215 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4216 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4216 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4217 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4217 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4218 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4218 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4219 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4219 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4220 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** COILS *** | | |
| B4220 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4221 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4221 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B4222 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B4222 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B5801 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B5802 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B5803 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| L300 | 021W0G100M | COIL | 10 UH | |
| L301 | 021W0G100M | COIL | 10 UH | |
| L302 | 021W0G100M | COIL | 10 UH | |
| L303 | 021W0G100M | COIL | 10 UH | |
| L901 | 02167F100J | COIL | 10 UH | |
| L903 | 02167F100J | COIL | 10 UH | |
| L904 | 02167F100J | COIL | 10 UH | |
| L3801 | 02167E220K | COIL | R7 22 UH | |
| L3802 | 02167E220K | COIL | R7 22 UH | |
| L3803 | 02167E220K | COIL | R7 22 UH | |
| L3804 | 02167E220K | COIL | R7 22 UH | |
| L3806 | 021404150M | COIL | 50A 15 UH | |
| L3807 | 02167E100K | COIL | R6-1 10 UH | |
| L3809 | 02186I6R8L | COIL | 6.8 UH | |
| L3810 | 02167E100K | COIL | R6-1 10 UH | |
| L4201 | 02167F101J | COIL | 100 UH | |
| L4202 | 02167F470J | COIL | 47 UH | |
| L4203 | 02167F470J | COIL | 47 UH | |
| L4206 | 02167F470J | COIL | 47 UH | |
| L4207 | 02167F470J | COIL | 47 UH | |
| L4212 | 021LA6220J | COIL | 22 UH | |
| L4213 | 021LA6220J | COIL | 22 UH | |
| L4214 | 021LA6220J | COIL | 22 UH | |
| L4215 | 021LA6220J | COIL | 22 UH | |
| L4218 | 021LA6220J | COIL | 22 UH | |
| L4219 | 021LA6220J | COIL | 22 UH | |
| L4401 | 02167F221J | COIL | 220 UH | |
| L5801 | 02167F220J | COIL | 22 UH | |
| L5802 | 021673220K | COIL | 22 UH | |
| L5803 | 02167F101J | COIL | 100 UH | |
| L5804 | 021LA6220J | COIL | 22 UH | |
| | | *** JACKS *** | | |
| J4201 | 060K411041 | RCA JACK | AV2-13P2-07H | |
| J4202 | 060K401126 | RCA JACK | AVG-2-13 | |
| J4204 | 060K431026 | RCA JACK | AV2-67A03-01 | |
| J4205 | 063E000082 | JACK PLATE | SAV-12CP-01Z5 | |
| J4211 | 060K401128 | RCA JACK | AV3-67A02-01H | |
| | | *** CONNECTORS *** | | |
| CP301 | 069S130419 | CONNECTOR PCB SIDE | A2502WV2-3P | |
| CP303 | 069S120419 | CONNECTOR PCB SIDE | A2502WV2-2P | |
| CP901 | 069S240629 | CONNECTOR PCB SIDE | A2001WV2-4P | |
| CP3801 | 069S140019 | CONNECTOR PCB SIDE | A2501WV2-4P | |
| CP3802 | 069S120019 | CONNECTOR PCB SIDE | A2501WV2-2P | |
| CP3803 | 069S1C0019 | CONNECTOR PCB SIDE | A2501WV2-12P | |
| CP3804 | 069S170019 | CONNECTOR PCB SIDE | A2501WV2-7P | |
| CP3807 | 069S2B0629 | CONNECTOR PCB SIDE | A2001WV2-11P | |
| CP3808 | 069S270629 | CONNECTOR PCB SIDE | A2001WV2-7P | |
| CP4202 | 069S250629 | CONNECTOR PCB SIDE | A2001WV2-5P | |
| CP4203 | 069EVT3030 | CONNECTOR PCB SIDE | 00_6232_029_006_800+ | |
| CP4204 | 069EVU3030 | CONNECTOR PCB SIDE | 00_6232_030_006_800+ | |
| CP4401 | 069S290629 | CONNECTOR PCB SIDE | A2001WV2-9P | |
| CP5801 | 06972KM020 | CONNECTOR PCB SIDE | TKC-W20P-U1 | |
| CP5802 | 06972KM020 | CONNECTOR PCB SIDE | TKC-W20P-U1 | |
| | | *** CRYSTAL & CERAMIC OSCILLATORS *** | | |
| X901 | 100CT01804 | CRYSTAL | HC-49/U-S | |
| | | *** TUNER *** | | |
| ⚠TU5801 | 0164500006 | DIGITAL TUNER | TUMUDTR-V110V | |
| | | *** OTHERS *** | | |
| SH4201 | 126R000038 | TERMINAL PIN | TP00370-21 | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** OTHERS *** | | |
| SH4202 | 126R000038 | TERMINAL PIN | TP00370-21 | |
| SH4203 | 126R000038 | TERMINAL PIN | TP00370-21 | |
| SH4204 | 126R000038 | TERMINAL PIN | TP00370-21 | |
| SH4205 | 126R000038 | TERMINAL PIN | TP00370-21 | |
| | | **REMOCON PCB ASS'Y** | | |
| | | *** PCB *** | | |
| PCBDA0 | A5X504GDA0 | REMOCON PCB ASS'Y | CEF182A | |
| | | *** DIODES *** | | |
| D544 | 0021E9Q010 | LED | LTL-1BEFJ-002A | |
| | | *** CONNECTORS *** | | |
| CP2201 | 069S250639 | CONNECTOR PCB SIDE | A2001WR2-5P | |
| | | *** OTHERS *** | | |
| OS2200 | 077A033001 | REMOTE RECEIVER | ROM-V338TAO | |
| | | **DIGITAL PCB ASS'Y** | | |
| | | *** PCB *** | | |
| PCBDH0 | A5X504GDH0 | DIGITAL PCB ASS'Y | CEF169A | |
| | | *** DIODES *** | | |
| D3402 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D3403 | D28R11FS20 | DIODE | EC11FS2-TE12L | |
| D3404 | D28R11FS20 | DIODE | EC11FS2-TE12L | |
| D3405 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D3406 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D3407 | DD7R20S300 | DIODE,SCHOTTKY BARRIER | RB520S-30-TE61 | |
| D3408 | D27RX301L0 | DIODE,SCHOTTKY | RSX301L-30TE25 | |
| | | *** ICS *** | | |
| IC2401 | IFNME240H0 | IC | X240H(215H48AGA21HG) | |
| IC2402 | ICLJ022ET5 | IC | HY5DU561622ETP-D43 | |
| IC2403 | ICLJ022ET5 | IC | HY5DU561622ETP-D43 | |
| IC2404 | I57F04L640 | IC | BR24L64F-WE2 | |
| IC2405 | I97F052290 | IC | BD5229G-TR | |
| IC2406 | ICLF0281A0 | IC | HY27US08281A-TPCB | |
| IC3401 | I1LF010420 | IC | AL1042 | |
| IC3402 | I07F0C0WF0 | IC | BA00BC0WFP-E2 | |
| IC3403 | I07F078200 | IC | BD7820FP-E2 | |
| IC3404 | I07F00HFP0 | IC | BA7810HFP-TR | |
| | | *** TRANSISTORS *** | | |
| Q2401 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q2403 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q2404 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q2406 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q2407 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q3403 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q3403 | T8RA039280 | TRANSISTOR,SILICON | 2SC3928A-T112-1R | or |
| Q3404 | TNAAC05002 | COMPOUND TRANSISTOR | KRC103SRTK | |
| Q3404 | TNRAC05003 | COMPOUND TRANSISTOR | RT1N241C-T112-1 | or |
| ⚠Q3405 | TJYASP8K30 | FET | SP8K3 TB | |
| Q3406 | TNAAC05002 | COMPOUND TRANSISTOR | KRC103SRTK | |
| Q3406 | TNRAC05003 | COMPOUND TRANSISTOR | RT1N241C-T112-1 | or |
| Q3407 | TPAAA05001 | COMPOUND TRANSISTOR | KRA101SRTK | |
| Q3407 | TPRAA05002 | COMPOUND TRANSISTOR | RT1P431C-T112-1 | or |
| | | *** COILS *** | | |
| B2401 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | |
| B2402 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | |
| B2403 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | |
| B2404 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | |
| B2405 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | |
| B2406 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | |
| B2407 | 024AC1601G | CORE,BEADS | BLM31PG601SN1L | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | |
|---|---|---|---|
| | | *** COILS *** | |
| B2408 | 024AC1601G | CORE,BEADS | BLM31PG601SN1L |
| B2409 | 024AC1601G | CORE,BEADS | BLM31PG601SN1L |
| B2410 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| B2411 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| B2412 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| B2413 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2414 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2415 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2416 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| B2417 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| B2418 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| B2419 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| B2420 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| B2421 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2422 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2423 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2424 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2425 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2426 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B2427 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D |
| B3401 | 024AC5330J | CORE,BEADS | BLM18PG330SN1D |
| B3402 | 024AC1391G | CORE,BEADS | BLM31PG391SN1L |
| B3406 | 024AC1601G | CORE,BEADS | BLM31PG601SN1L |
| B3407 | 024AC1601G | CORE,BEADS | BLM31PG601SN1L |
| B3408 | 024AC1601G | CORE,BEADS | BLM31PG601SN1L |
| B3410 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D |
| L2401 | 0216SD1R0J | COIL | 1 UH |
| L2411 | 0216SDR47J | COIL | 0.47 UH |
| L2412 | 0216SDR47J | COIL | 0.47 UH |
| L2413 | 0216SDR47J | COIL | 0.47 UH |
| L2414 | 0216SDR47J | COIL | 0.47 UH |
| L3401 | 0211M44R7M | COIL | 4.7 UH |
| | | *** CONNECTORS *** | |
| CP2403 | 06972KT059 | CONNECTOR PCB SIDE | 125607220W3 |
| CP2404 | 06972KT059 | CONNECTOR PCB SIDE | 125607220W3 |
| CP2405 | 069AAA1009 | CONNECTOR PCB SIDE | YKF45-0036N |
| | | *** CRYSTAL & CERAMIC OSCILLATORS *** | |
| X2401 | 100DT05501 | CRYSTAL | SMD-49 |
| X2402 | 100DT02503 | CRYSTAL | SMD-49 |
| | | *** NETWORKS *** | |
| NR2401 | 110P4102M5 | R,NETWORK | 4D02WGJ0102TCE |
| NR2402 | 110P4220M6 | R,NETWORK | 4D02WGJ0220TCE |
| NR2403 | 110P4220M6 | R,NETWORK | 4D02WGJ0220TCE |
| NR2404 | 110P4220M6 | R,NETWORK | 4D02WGJ0220TCE |
| NR2405 | 110P4220M6 | R,NETWORK | 4D02WGJ0220TCE |
| NR2406 | 110P4560M5 | R,NETWORK | 4D02WGJ0560TCE |
| NR2407 | 110P4560M5 | R,NETWORK | 4D02WGJ0560TCE |
| NR2408 | 110P4560M5 | R,NETWORK | 4D02WGJ0560TCE |
| NR2409 | 110P4560M5 | R,NETWORK | 4D02WGJ0560TCE |
| NR2410 | 110P4560M5 | R,NETWORK | 4D02WGJ0560TCE |
| NR2411 | 110P4560M5 | R,NETWORK | 4D02WGJ0560TCE |
| NR2412 | 110P4560M5 | R,NETWORK | 4D02WGJ0560TCE |
| NR2413 | 110P4560M5 | R,NETWORK | 4D02WGJ0560TCE |
| | | **SCALER PCB ASS'Y** | |
| | | *** PCB *** | |
| PCBDS0 | A5X504GDS0 | SCALER PCB ASS'Y | CEF170A |
| | | *** DIODES *** | |
| D101 | DE7RB5R62B | DIODE,ZENER | UDZS5.6B TE-17 |
| D105 | DD7R20S300 | DIODE,SCHOTTKY BARRIER | RB520S-30-TE61 |
| D106 | DE7RB5R62B | DIODE,ZENER | UDZS5.6B TE-17 |
| D109 | DD7R20S300 | DIODE,SCHOTTKY BARRIER | RB520S-30-TE61 |
| D802 | DE7RB5R62B | DIODE,ZENER | UDZS5.6B TE-17 |
| D803 | DE7RB5R62B | DIODE,ZENER | UDZS5.6B TE-17 |
| D805 | DE7RB5R62B | DIODE,ZENER | UDZS5.6B TE-17 |
| D807 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 |
| D808 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** DIODES *** | | |
| D3206 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D3207 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D3209 | D28R11FS20 | DIODE | EC11FS2-TE12L | |
| D3600 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D3601 | DD7R60L400 | DIODE,SCHOTTKY | RB160L-40-TE25 | |
| D3602 | DE7RB5R62B | DIODE,ZENER | UDZS5.6B TE-17 | |
| D3603 | DD7R60L400 | DIODE,SCHOTTKY | RB160L-40-TE25 | |
| D3606 | D28R1QS040 | DIODE | EC31QS04-TE12L | |
| D3609 | DE7RB3R32B | DIODE,ZENER | UDZS3.3B TE-17 | |
| D3613 | DE7RB3R32B | DIODE,ZENER | UDZS3.3B TE-17 | |
| D4301 | DE7RB5R62B | DIODE,ZENER | UDZS5.6B TE-17 | |
| D4302 | DE7RB5R62B | DIODE,ZENER | UDZS5.6B TE-17 | |
| D4310 | DD7R0S3550 | DIODE,SILICON | 1SS355 TE-17 | |
| | | *** ICS *** | | |
| IC101 | I56F07155B | IC | OEC7155B | |
| IC102 | I9UF032290 | IC | PST3229NR | |
| IC103 | ICRJ0256N0 | IC | AT24C256N-10SU-2.7 | |
| IC104 | ICRJ0256N0 | IC | AT24C256N-10SU-2.7 | |
| IC801 | I56K07A720 | IC | R8J66607A72FP | |
| IC2101 | IFSK0883C0 | IC | MST9883C-LF-110 | |
| ⚠IC3201 | I07F0C0WF0 | IC | BA00BC0WFP-E2 | |
| ⚠IC3202 | I07F078200 | IC | BD7820FP-E2 | |
| IC3600 | I07F078200 | IC | BD7820FP-E2 | |
| IC3601 | I57J0L02F0 | IC | BR24L02F-WE2 | |
| IC3602 | I07F0C0WF0 | IC | BA00BC0WFP-E2 | |
| IC3603 | IG1F090110 | IC | SII9011CLU | |
| IC3605 | IG4F020210 | IC | CM2021-00TR | |
| IC3608 | I57J0L32F0 | IC | BR24L32F-WE2 | |
| IC3611 | ICMF089E50 | IC | SST89E58RD2-40-C-TQJE | |
| IC7201 | IF8F0385A0 | IC | ICSV385AGLFT | |
| IC8103 | I0UF015010 | IC | MM1501XNRE | |
| | | *** TRANSISTORS *** | | |
| Q101 | TNAAC05002 | COMPOUND TRANSISTOR | KRC103SRTK | |
| Q104 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q104 | T27T030180 | FET | 2SK3018T106 | or |
| Q105 | TPAAC05002 | COMPOUND TRANSISTOR | KRA103SRTK | |
| Q106 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q106 | T27T030180 | FET | 2SK3018T106 | or |
| Q2101 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q2101 | T6RA015300 | TRANSISTOR,SILICON | 2SA1530A-T1 | or |
| Q3205 | TAAA01664Y | TRANSISTOR,SILICON | KTA1664-Y-RTF/P | |
| Q3206 | TNAAB05003 | COMPOUND TRANSISTOR | KRC102SRTK | |
| Q3209 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q3210 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q3600 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q3600 | T27T030180 | FET | 2SK3018T106 | or |
| Q3605 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q3605 | T27T030180 | FET | 2SK3018T106 | or |
| Q3606 | T2AA5132E0 | FET | KTK5132E-RTK/P | |
| Q3606 | T27T030180 | FET | 2SK3018T106 | or |
| Q4302 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4302 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q4305 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q4305 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q8101 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q8101 | T6RA015300 | TRANSISTOR,SILICON | 2SA1530A-T1 | or |
| Q8102 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q8102 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q8103 | TCAA3875SY | TRANSISTOR,SILICON | KTC3875S_Y_RTK | |
| Q8103 | T8RA030520 | TRANSISTOR,SILICON | 2SC3052-T1 | or |
| Q8105 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q8105 | T6RA015300 | TRANSISTOR,SILICON | 2SA1530A-T1 | or |
| Q8106 | TAAA1504SY | TRANSISTOR,SILICON | KTA1504S_Y_RTK | |
| Q8106 | T6RA015300 | TRANSISTOR,SILICON | 2SA1530A-T1 | or |
| | | *** COILS *** | | |
| B801 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B802 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B803 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B803 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B804 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B804 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B805 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|
| | | *** COILS *** | | |
| B2101 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B2101 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B3201 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B3202 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B3203 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B3206 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B3207 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B3208 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B3209 | 024AC5181J | CORE,BEADS | BLM18PG181SN1D | |
| B3601 | 024HC51513 | CORE,BEADS | FCM1608KF-151T06 | |
| B3601 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | or |
| B3602 | 024HC51513 | CORE,BEADS | FCM1608KF-151T06 | |
| B3602 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | or |
| B3603 | 024HC51513 | CORE,BEADS | FCM1608KF-151T06 | |
| B3603 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | or |
| B3604 | 024HC51513 | CORE,BEADS | FCM1608KF-151T06 | |
| B3604 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | or |
| B3605 | 024HC51513 | CORE,BEADS | FCM1608KF-151T06 | |
| B3605 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | or |
| B3606 | 024HC51023 | CORE,BEADS | FCM1608KF-102T02 | |
| B3606 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D | or |
| B3610 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B3610 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| B3612 | 024HC51023 | CORE,BEADS | FCM1608KF-102T02 | |
| B3612 | 024AC5102F | CORE,BEADS | BLM18BD102SN1D | or |
| B3614 | 024HC51513 | CORE,BEADS | FCM1608KF-151T06 | |
| B3614 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | or |
| B3615 | 024HC51513 | CORE,BEADS | FCM1608KF-151T06 | |
| B3615 | 024AC5151E | CORE,BEADS | BLM18BD151SN1D | or |
| B4307 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B4308 | 0246C51024 | CORE,BEADS | MMZ1608R102CT | |
| B7201 | 024HC56005 | CORE,BEADS | FCM1608CF-600T06 | |
| B7201 | 024AC5600E | CORE,BEADS | BLM18BB600SN1D | or |
| L2101 | 0216S8220K | COIL | F 22 UH | |
| L2102 | 0216S8220K | COIL | F 22 UH | |
| L2103 | 0216S8470K | COIL | F 47 UH | |
| L2106 | 0216S42R2J | COIL | 2.2 UH | |
| L2107 | 0216S8220K | COIL | F 22 UH | |
| L4306 | 0216S8220K | COIL | F 22 UH | |
| L7201 | 0216S8470K | COIL | F 47 UH | |
| L7202 | 0216S8470K | COIL | F 47 UH | |
| L7203 | 0216S8470K | COIL | F 47 UH | |
| L8102 | 0216S8470K | COIL | F 47 UH | |
| L8105 | 0216S8220K | COIL | F 22 UH | |
| | | *** JACKS *** | | |
| J4301 | 060J431025 | RCA JACK | MSD-242VA1-03_NI_FE_LF | |
| | | *** CONNECTORS *** | | |
| CP101 | 069S250629 | CONNECTOR PCB SIDE | A2001WV2-5P | |
| CP102 | 069S2A0629 | CONNECTOR PCB SIDE | A2001WV2-10P | |
| CP103 | 069S270629 | CONNECTOR PCB SIDE | A2001WV2-7P | |
| CP802 | 069EVU3030 | CONNECTOR PCB SIDE | 00_6232_030_006_800+ | |
| CP803 | 069EVT3030 | CONNECTOR PCB SIDE | 00_6232_029_006_800+ | |
| CP2200 | 069S230629 | CONNECTOR PCB SIDE | A2001WV2-3P | |
| CP3201 | 069S2B0629 | CONNECTOR PCB SIDE | A2001WV2-11P | |
| CP3601 | 069HYJ3010 | CONNECTOR PCB SIDE | DC1R019JDA | |
| CP3602 | 069S240629 | CONNECTOR PCB SIDE | A2001WV2-4P | |
| CP3604 | 069S290629 | CONNECTOR PCB SIDE | A2001WV2-9P | |
| CP4303 | 069S260629 | CONNECTOR PCB SIDE | A2001WV2-6P | |
| CP7203 | 069HVWT04A | CONNECTOR PCB SIDE | FI-X30S-HF-NPB | |
| | | *** CRYSTAL & CERAMIC OSCILLATORS *** | | |
| X101 | 100WT01611 | CRYSTAL | HC-49/U-S | |
| X801 | 100YT05401 | CRYSTAL | FCX-03 | |
| X3601 | 100CT01101 | CRYSTAL | HC-49/U-S | |
| X3602 | 100DT02801 | CRYSTAL | SMD-49 | |
| | | *** NETWORKS *** | | |
| NR801 | 110P4000M4 | R,NETWORK | 4D03WGJ0000T5E | |
| NR802 | 110P4470M4 | R,NETWORK | 4D03WGJ0470T5E | |
| NR803 | 110P4470M4 | R,NETWORK | 4D03WGJ0470T5E | |
| NR804 | 110P4470M4 | R,NETWORK | 4D03WGJ0470T5E | |

# ELECTRICAL REPLACEMENT PARTS LIST

| REF. NO. | PART NO. | | DESCRIPTION |
|---|---|---|---|
| | | *** NETWORKS *** | |
| NR805 | 110P4470M4 | R,NETWORK | 4D03WGJ0470T5E |
| NR806 | 110P4470M4 | R,NETWORK | 4D03WGJ0470T5E |
| NR807 | 110P4470M4 | R,NETWORK | 4D03WGJ0470T5E |
| NR808 | 110P4103M4 | R,NETWORK | 4D03WGJ0103T5E |
| NR809 | 110P4103M4 | R,NETWORK | 4D03WGJ0103T5E |
| NR2101 | 110P4101M4 | R,NETWORK | 4D03WGJ0101T5E |
| NR2102 | 110P4101M4 | R,NETWORK | 4D03WGJ0101T5E |
| NR2103 | 110P4101M4 | R,NETWORK | 4D03WGJ0101T5E |
| NR2104 | 110P4101M4 | R,NETWORK | 4D03WGJ0101T5E |
| NR2105 | 110P4101M4 | R,NETWORK | 4D03WGJ0101T5E |
| NR2106 | 110P4101M4 | R,NETWORK | 4D03WGJ0101T5E |
| NR3601 | 110P4330M4 | R,NETWORK | 4D03WGJ0330T5E |
| NR3602 | 110P4000M4 | R,NETWORK | 4D03WGJ0000T5E |
| NR3604 | 110P4000M4 | R,NETWORK | 4D03WGJ0000T5E |
| NR3605 | 110P4000M4 | R,NETWORK | 4D03WGJ0000T5E |
| NR3606 | 110P4000M4 | R,NETWORK | 4D03WGJ0000T5E |
| NR3607 | 110P4000M4 | R,NETWORK | 4D03WGJ0000T5E |
| NR3608 | 110P4000M4 | R,NETWORK | 4D03WGJ0000T5E |
| NR7201 | 110P4470M4 | R,NETWORK | 4D03WGJ0470T5E |
| NR7202 | 110P4470M4 | R,NETWORK | 4D03WGJ0470T5E |
| | | *** OTHERS *** | |
| SH4301 | 126R000038 | TERMINAL PIN | TP00370-21 |
| SH4302 | 126R000038 | TERMINAL PIN | TP00370-21 |
| SH4303 | 126R000038 | TERMINAL PIN | TP00370-21 |
| | | **AND OTHERS** | |
| | | *** COILS *** | |
| TR301 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR303 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR304 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR305 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR504 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR507 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR508 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR701 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR702 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR3001 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| TR4202 | 02AHB9A972 | CORE,FERRITE | W5T29X7.5X19 |
| | | *** CONNECTORS *** | |
| CD4203 | 122H0T1401 | CORD,JUMPER | 2H0T1401 |
| CD4204 | 122H0U1401 | CORD,JUMPER | 2H0U1401 |
| | | *** AC CORD *** | |
| ⚠CD3801 | 1209119904 | CORD,SET AC | 9119904 |
| | | *** OTHERS *** | |
| CD301 | 06CU124002 | CORD,CONNECTOR | CU124002 |
| CD303 | 06CU127601 | CORD,CONNECTOR | CU127601 |
| CD505 | 06CU2E5101 | CORD,CONNECTOR | CU2E5101 |
| CD901 | 06CU246601 | CORD,CONNECTOR | CU246601 |
| CD2201 | 06CU235502 | CORD,CONNECTOR | CU235502 |
| CD3802 | 06CU123701 | CORD,CONNECTOR | CU123701 |
| CD3803 | 06CU1C4201 | CORD,CONNECTOR | CU1C4201 |
| CD3804 | 06CU173701 | CORD,CONNECTOR | CU173701 |
| CD3805 | 06CU144706 | CORD,CONNECTOR | CU144706 |
| CD3806 | 06CU273702 | CORD,CONNECTOR | CU273702 |
| CD3807 | 06CU2B5501 | CORD,CONNECTOR | CU2B5501 |
| CD4202 | 06CU256001 | CORD,CONNECTOR | CU256001 |
| CD7204 | 06CHRU3002 | CORD,CONNECTOR | CHRU3002 |
| CUS811 | 800WFAA007 | CUSHION B | |
| ⚠SP301 | 0701016002 | SPEAKER | EAS12D175B |
| ⚠SP302 | 0701016002 | SPEAKER | EAS12D175B |
| BT001 | 141L003010 | BATTERY,MANGAN | R6P(AR)XICI |
| BT002 | 141L003010 | BATTERY,MANGAN | R6P(AR)XICI |
| ⚠V2301 | 09E4126002 | LCD | LK260T3LF12 |
| TM101 | 076B0MR010 | TRANSMITTER | ETR0088-010021 |

# ELECTRICAL REPLACEMENT PARTS LIST

RESISTOR

| | |
|---|---|
| RC..... | CARBON RESISTOR |

CAPACITORS

| | |
|---|---|
| CC..... | CERAMIC CAPACITOR |
| CE..... | ALUMI ELECTROLYTIC CAPACITOR |
| CP..... | POLYESTER CAPACITOR |
| CPP..... | POLYPROPYLENE CAPACITOR |
| CPL..... | PLASTIC CAPACITOR |
| CMP..... | METAL POLYESTER CAPACITOR |
| CMPL..... | METAL PLASTIC CAPACITOR |
| CMPP..... | METAL POLYPROPYLENE CAPACITOR |

SHARP

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